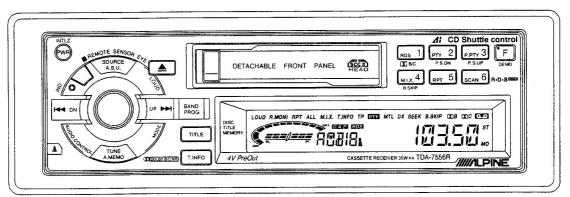


### FM/MW/LW/RDS Cassette Receiver

### CD Shuttle Controller

- The model described in this manual is developed from Model TDM-7531R/TDM-7532R/TDM-7535R. For information that is not mentioned in this service manual, refer to the Service Manual TDM-7531R/TDM-7532R/TDM-7535R (Part No. 68E21961S01). + 366 2/32/5/5
- For the cassette deck mechanism parts (GR75S120/130) of this model, refer to the Service Manual GR-S Series (Part No. 68E23241S01).



(TDA-7556R)

### Contents -Specifications \_\_\_\_\_\_2 LCD Display ......11 Block Diagram .......12 Refer to the Service Manual • TDM-7531R/TDM-7532R/TDM-7535R Tuner Schematic Diagram (Part No. 68E21961S01). **Specifications** NOTE: Refer to the Service Manual • TDM-7531R/7532R/7535R (Part No. 68E21961S01) for description not mentioned in this manual. **TAPE PLAYER** Dolby B • NR: 60.5dB Dolby C • NR : 67dB (○●△) **GENERAL** Pre Output Voltage/Impedance.....1V/10kohm Dimensions (W $\times$ H $\times$ D) Nose: 170×46×18mm NOTE: Due to Continuing product improvement, specifications and designs are subject to change without notice. O: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only, : For TDA-7550R Model Only Others: Common.

## **Packing Assembly Parts List**

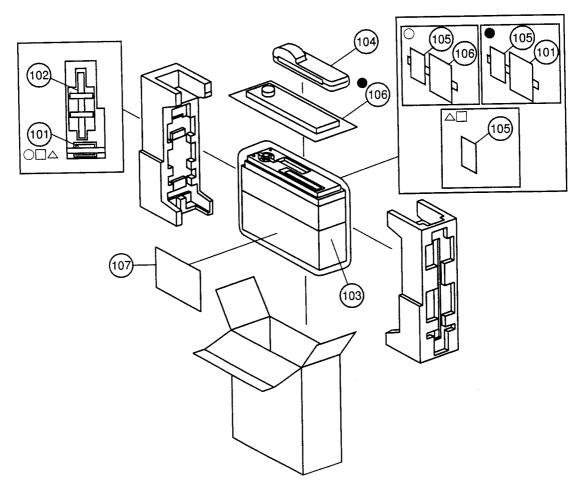
Sy	mbol	Part No.	Description	· .	mbol	Part No.	Description
	101-2 101-3 101-4	02B47353F01 03S72235F13 46A42363F01 36A11113W01 03A11112W01	Nut, Hex. (M5) Screw, Countersink (M5X8) Stud, Bolt Cap, Rubber (A) Bolt, Hex. (M5) (A)	0 • 4 🗆	105 105		Carrying, Case Assy., ISO Wire Assy., ISO Wire Assy., ISO Wire Assy., ISO Wire
0	101-7	01T75363W01 60S70585F01 60T55630W01 07B64552F01 15D50406W01	ISO / JASO Antenna Adapter Battery, Lit. 3V (CR2025) Battery, MGN R03(NB)UM-4 Bracket, Strap Receiver Case, Inner	0	106 106 107	01T75235W05 01T75436W01 68P80683W20	Assy., Card Remocon Unit, Remocon Owner's Manual

NOTE: O: For TDA-7556R Model Only,

●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,

☐: For TDA-7550R Model Only, Others: Common.

### **Packing Method View**



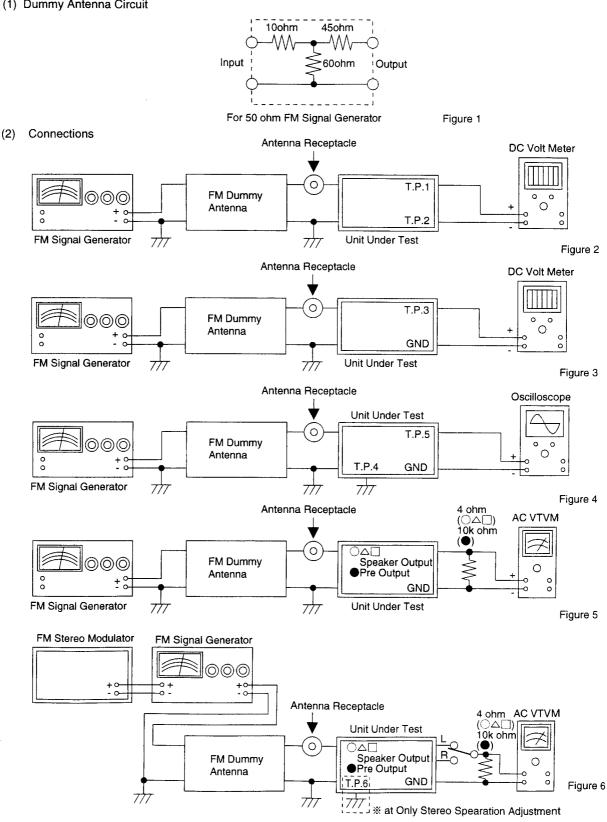
NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,

: For TDA-7550R Model Only, Others : Common.

### **Adjustment Procedures**

#### 1. FM SECTION

(1) Dummy Antenna Circuit



(3)	Control Settings	
` ,	Power Switch	ON
	Fader Control	Center Position
	Balance Control	
	Treble/Bass Control	Center Position
	Band Switch	FN
	Others	

### (4) Adjustment Procedures

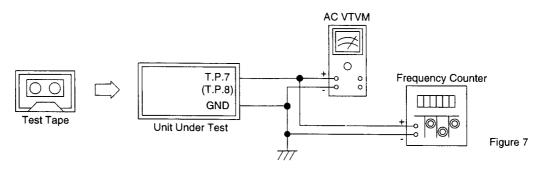
Adjust	ment Proced	ure				TootPoint	.	Adjustment	
Step	Description	)	Connection	Signal Generator	Dial Control	Test Poin		Adjustment	
1	IF Adjustment		Figure 2	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2		AdjustL2101 to 0 ± 15mV.	
2	Signal Meter Adjustment		Figure 3	98.1MHz, 46dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.3		Adjust VR2101 to 3.5 ± 0.1V.	
3	Adjustment		Figure 4	98.1MHz, 30dB (Mod. OFF)	98.1MHz	T.P.4 T.P.5		Adjust VR2104 for the waveform changing to maximum output.  Figure: Waveform of T.P.5 output.  MAX.  Stop the adjust VR2104 at this time.	
			Figure 5	98.1MHz, 72dB (Mod. 400Hz,	98.1MHz	○△□ Speaker Output		Adjust VOLUME to obtain 2V output. This value is 0dB.	
4	Noise Level	(1)	Figure 3	Dev. 40kHz)		●Pre Output		AdjustVOLUME to obtain 400mV output. This value is 0dB.	
	Adjustment	(0)	Figure 5	98.1MHz, -19dB (Mod. 400Hz,	98.1MHz	O△□ Speaker Out	put	Adjust VR2105 to -25±3dB output	
		(2)	Figure 5	Dev. 40kHz)	30.1111.12	●Pre Output		at SG level minimum.	
5	Stereo Blend		Figure 6	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz,	98.1MHz	O△□ Speaker Ou	tput	AdjustVR2102 for Lch and Rch output level difference to be 8±2dB.	
	(Lch)			Stereo, Lch Only)		●Pre Outpu	t	_6±2ub.	
6	Stereo Separation		Figure 6	98.1MHz, 72dB (Mod. 1kHz, Dev 36kHz, Stereo,	98.1MHz	○△□ Speaker Output	T.P.6	Adjust VR2103 for Rch output to be minimum, and confirm Lch and Rch output level difference is more	
	Adjustment (Lch)			Lch Only)		Pre Output		than 20dB.	
	Stereo Blen	nd		98.1MHz, 40dB (Mod. 1kHz,		O△□ Speaker Ou	tput	Proceed same adjustment under	
7	Adjustment (Rch)		Figure 6	Dev. 36kHz, Stereo, Rch Only)	98.1MHz	●Pre Outpu	ut	step 5.	
8	Stereo Separation		Figure 6	98.1MHz, 72dB (Mod. 1kHz, Dev 36kHz, Stereo,	v. 98.1MHz	○△□ Speaker Output	T.P.6	Proceed same adjustment under step 6 by alternating Lch and Rch.	
	Adjustment (Rch)	•		Rch Only)		Pre Output		otop oby anomaling 25. 2.10	

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,

☐: For TDA-7550R Model Only, Others : Common.

#### 2. TAPE PLAYER SECTION

#### (1) Connection



(2) Control Settings

Power Switch	ON
Fader Control	Center Position
Balance Control	Center Position
Treble/Bass Control	Center Position
Others	OFF

(3) The necessaries for adjustment

**GR-S Extension Cord** 

Assy., EX Cord Kit for GR-S Mechanism

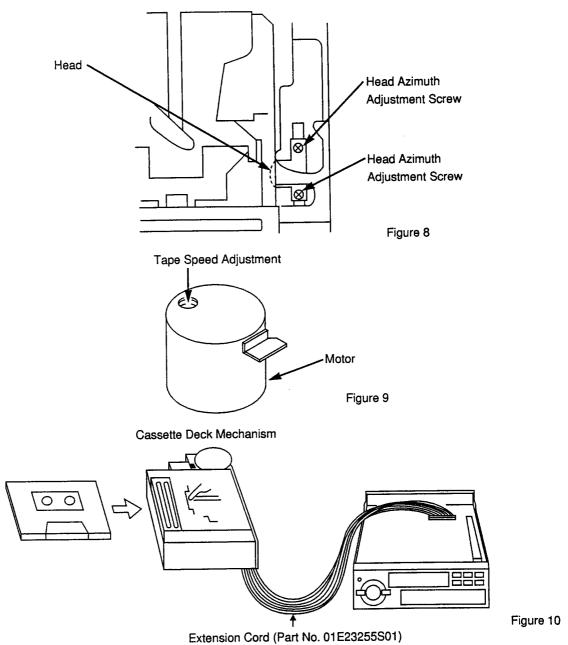
Part No. 01E23255S01

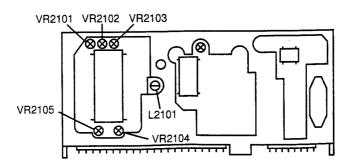
See Adjustment Locations (Figure 10).

#### (4) Adjustment Procedures

Step	Description	TestTape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114NB (14kHz)	Figure 7	T.P.7 (Lch) T.P.8 (Rch)	Head Azimuth Adjustment Screws (Figure 8)	Adjustfor Max. and same level output at Forward and Reverse positions.
2	Dolby Level Adjustment	MTT-150 (400Hz)	Figure 7	T.P.7 (Lch) T.P.8 (Rch)	VR201 (Lch) VR202 (Rch)	Adjustfor 388mV $\pm$ 1dB atT.P.7 (Lch) and T.P.8 (Rch).
3	Tape Speed Adjustment	MTT-111N (3kHz)	Figure 7	T.P.7 (Lch) or T.P.8 (Rch)	Tape Speed Adjustment (Figure 9)	Adjust for 2,970 to 3,090Hz at T.P.7 (T.P.8).

### **Adjustment Locations**





FM/MW/LW Tuner Unit (FE001)

NOTE: For the Adjustment parts (VR201, VR202) and Test Points (T.P.1 ~6), refer to the Parts Layout on P.C. Boards and Wiring Diagram.

### **Description of IC Terminal**

85151W08: IC501

[No. ]		Cumbai	1/0	Terminal Description
No.	Т	Symbol		
1	0	NFP EV DATA	0	E.VOL DATA output terminal for ADJ-NFP.
	$\Delta\Box$	NC NC		No connection terminal.
2		OSE PWR	0	Power Control signal output terminal to NOSE.
3	$\bigcirc lackbox{} \triangle$	BUZZER	0	Guide Tone signal output terminal.
		NC		No connection terminal.
4		TS START	0	Data START signal output terminal to DTS μ-COM.
5		TS MUTE	-	Mute signal input terminal from DTS µ-COM.
6		DTS CE	0	CE signal output terminal to DTS μ-COM.
7	0.0	ALARM	0	ALARM signal output terminal.
8	0	NFP EV CE	0	E.VOL CE output terminal for ADJ-NFP.
		NC	_	No connection terminal.
9		GND	_	GND terminal.
10		DOLBY B	0	Dolby B • NR ON/OFF signal output terminal. H: OFF / L: ON
11	$\bigcirc \bullet \triangle$	DOLBY C	0	Dolby C • NR ON/OFF signal output terminal. H: OFF / L: ON
		NC	_	No connection terminal.
12		O. FAST	0	Gain Control signal output terminal for MS IC at CUE/REV. H: CUE/REV, L: PLAY
13		FOR/REV	0	Tape Direction indicator output terminal. H: FOR / L: REV
14		D.MOTOR	0	Motor Rotation Control output terminal. H: ROTATE / L: STOP
15		R-IN	0	Sub Motor Rotation Control output terminal.
16	ļ. <u>.</u>	F-IN	0	R-IN: H (CCW)/L (CW)/H (BRAKE)/L (OFF), F-IN: L (CCW)/H (CW)/L (BRAKE)/H (OFF)
17		ATR FAST	!-	Main Motor Rotation Control input terminal. H: High Speed / L: Stabilization
18	<u> </u>	M.S. DET	<del>                                     </del>	Music Sensor Detection signal input terminal.  Metal Tape Detection terminal. H: METAL / L: NORMAL
19	<u> </u>	METAL		
20	ļ	PACK IN	<u> </u>	Pack In Detection terminal. H: PACK IN / L: PACK OUT
21		REV.DET		REV REEL Rotation Detection input terminal.
22	<del> </del>	MODE SW		Mode Detection input terminal.
23		FOR DET		FOR REEL Rotation Detection input terminal.
24	1	GND	-	GND terminal.
25	ļ <u> </u>	PAUSE SW		Pause Mode Detection input terminal.
26		MUTE	0	Audio Mute signal output terminal.
27	ļ	NFP-1	0	NFP Control signal output terminal. H: FAD-F / L: OTHERS
28	1	NFP-2	0	NFP Control signal output terminal. H: FAD-R / L: OTHERS
29	1	EV-DATA	1/0	Serial Data output to E.VOL/ACK input from E.VOL terminal.
30	ļ	EV-CLK	0	Serial Clock output terminal to E.VOL.
31	ļ	PWR IC	0	Stand-by Control output terminal for Power IC.
32	<b>!</b>	PWR ON	0	Power Control signal output terminal.
33	ļ. <del>.</del>	NC DUE	1_	No connection terminal.
34		BUS OUT	0	Signal output terminal to BUS I/F.
35		RESET	-	System Reset input terminal.
36	<del> </del>	REMOCON		Remocon Data input terminal.
37	1	BUS IN		Signal input terminal from BUS I/F.
38	1	ACC DET		ACC Detection signal input terminal.
39		BAT DET	1	BATT Detection signal input terminal.
40	<u> </u>	VDD		Power Supply terminal.

NOTE: ○: For TDA-7556R Model Only, •: For TDA-7659R Model Only, △: For TDA-7552R Model Only,

<sup>☐:</sup> For TDA-7550R Model Only, Others : Common.

No.		Symbol	I/O	Terminal Description					
41	-	X2	0	0. 1. 0.00					
42		X1	ı	System Clock OSC connection terminal. (8.38MHz)					
43		GND		GND terminal.					
44		NC	_	No connection terminal.					
45		GND	_	GND terminal.					
46									
47	Ai-	NET IN/OUT	ı	Audio signal switching input terminal. H: Outer AMP / L: Inner AMP					
48	0	ININT	1	Mutual Reset IN-INT signal input terminal.					
40	$\triangle\Box$	PULL-DOWN	-	Pull-Down terminal.					
49		MODEL	1	A/D input terminal for Model Set Up.					
50	E	NCODER 1	1	Encoder Data input terminal.					
51	E	ENCODER 2		Elicoder Data Input terminal.					
52		GND		GND -		GND terminal.			
53		GIVE		Green Communication of the Com					
54	١	NOSE-DET	ı	Nose Detection input terminal.					
55		QQV		Power Supply terminal.					
56		<b>V</b> UU		Tower Supply terminal.					
57		LCD DO		Serial Data input terminal from LCD Driver.					
58		LCD DI	0	Serial Data output terminal to LCD Driver.					
59		LCD CLK	0	Serial Clock output terminal to LCD Driver.					
60		LCD CE	0	Serial Data CE signal output terminal to LCD Driver.					
61		LCD RST	0	Reset signal output terminal to LCD Driver.					
62		DTS STS	I	Serial Data input terminal from DTS µ-COM.					
63		DTS CMD	0	Serial Data output terminal to DTS μ-COM.					
64		DTS CLK	0	Serial Clock output terminal to DTS μ-COM.					

NOTE: ○: For TDA-7556R Model Only, ◆: For TDA-7659R Model Only, △: For TDA-7552R Model Only,

☐: For TDA-7550R Model Only, Others : Common.

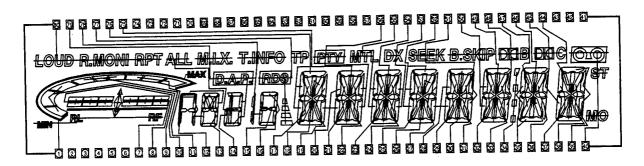
### 85088W01: IC502

No.	Symbol	1/0	Terminal Description
1	LW	0	LW band selection output terminal.
2	LO/DX	0	Local/DX control output terminal. H: During SEEK LOCAL
3	NC	_	No Connection terminal.
4	AVSS		GND terminal for A/D converter.
5	LPF SW	0	LPF time constant switching terminal at AF CHECK.
6	IF MUTE	0	IF Mute output terminal.
7	AVREF1	_	Reference voltage terminal for A/D Converter.
8	RXD	1	RDS Monitor input terminal (Pull-Up terminal).
9	TXD	0	RDS Monitor output terminal (No Connection terminal).
10	SYNC	0	SYNC signal output terminal (No Connection terminal).
11	PLL CLK	0	Clock output terminal to PLL.
12	PLL DATA	0	Data output terminal to PLL.
13	PLL CE	0	Data communication control signal output terminal to PLL.
14	DTS MUTE	0	Audio mute output terminal.
15	DTS START	ı	DTS data start input terminal.
16	DTS CMD	1	Command input terminal from Main μ-COM.
17	DTS STS	0	Status output terminal to Main µ-COM.
18	DTS CLK	_	Communication clock signal input terminal from Main μ-COM.

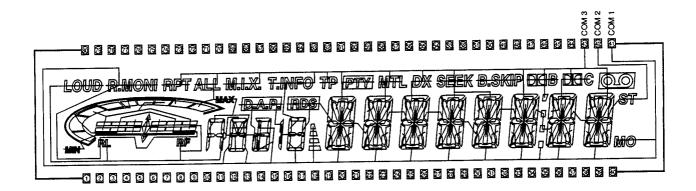
No.	Symbol	1/0	Terminal Description
19			
5	NC	_	No Connection terminal.
32			
33	GND	_	GND terminal.
34			
5	NC	_	No Connection terminal.
57			
58	FM/AM	0	FM/AM mode switching signal output terminal. H: FM
59	AUDIO IN	ı	Audio xerox Detection terminal.
60	RESET	1	System reset input terminal.
61	RDS CLK	T	RDS clock input terminal from RDS Decoder.
62	RDS DATA	ı	RDS data input terminal from RDS Decoder.
63	DTS CE	ı	DTS CE input terminal.
64			
5	NC		No Connection terminal.
66			
67	50K REF	0	L.P.F. switching output terminal at RDS mode.
68	VDD	-	Power supply terminal.
69	X2		System clock OSC connection terminal. (4.9152 MHz)
70	X1	_	System clock GGG connection terminal (1.5 to 2 mile)
71	GND		GND terminal.
72	NC	_	No Connection terminal.
73	PLL DATA I	_	PLL Data input terminal.
74	AVDD	_	Analog power supply terminal for A/D converter.
75	AVREF0		Reference voltage terminal for A/D converter.
76	S.METER		Signal meter voltage input terminal.
77	A/I		Port detects adjoining rejection interference of station.
78	M.P	I	Port detects multi path interference of station.
79	ST	1	ST signal input terminal.
80	SD		Station detector signal input terminal.

### **LCD Display**

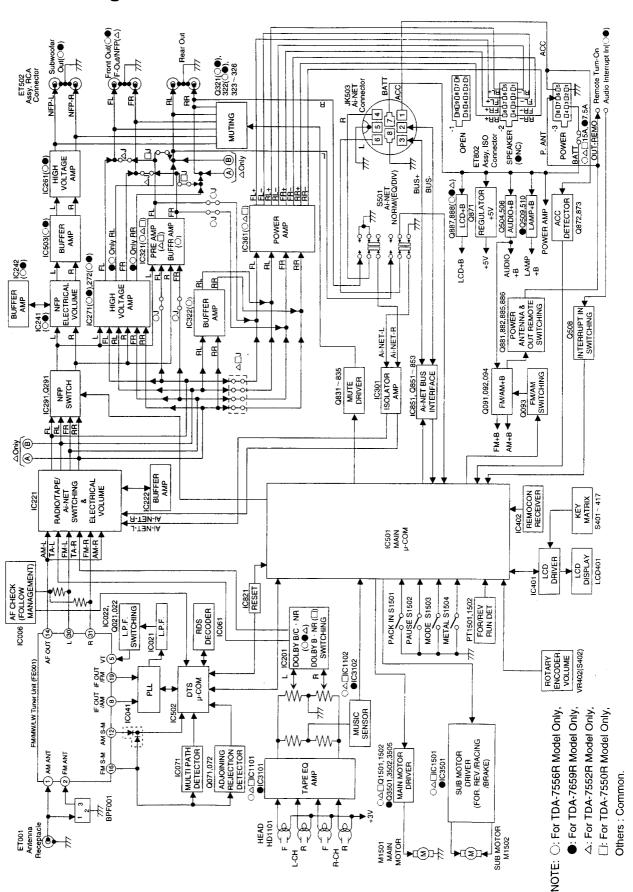
**SEGMENT** 



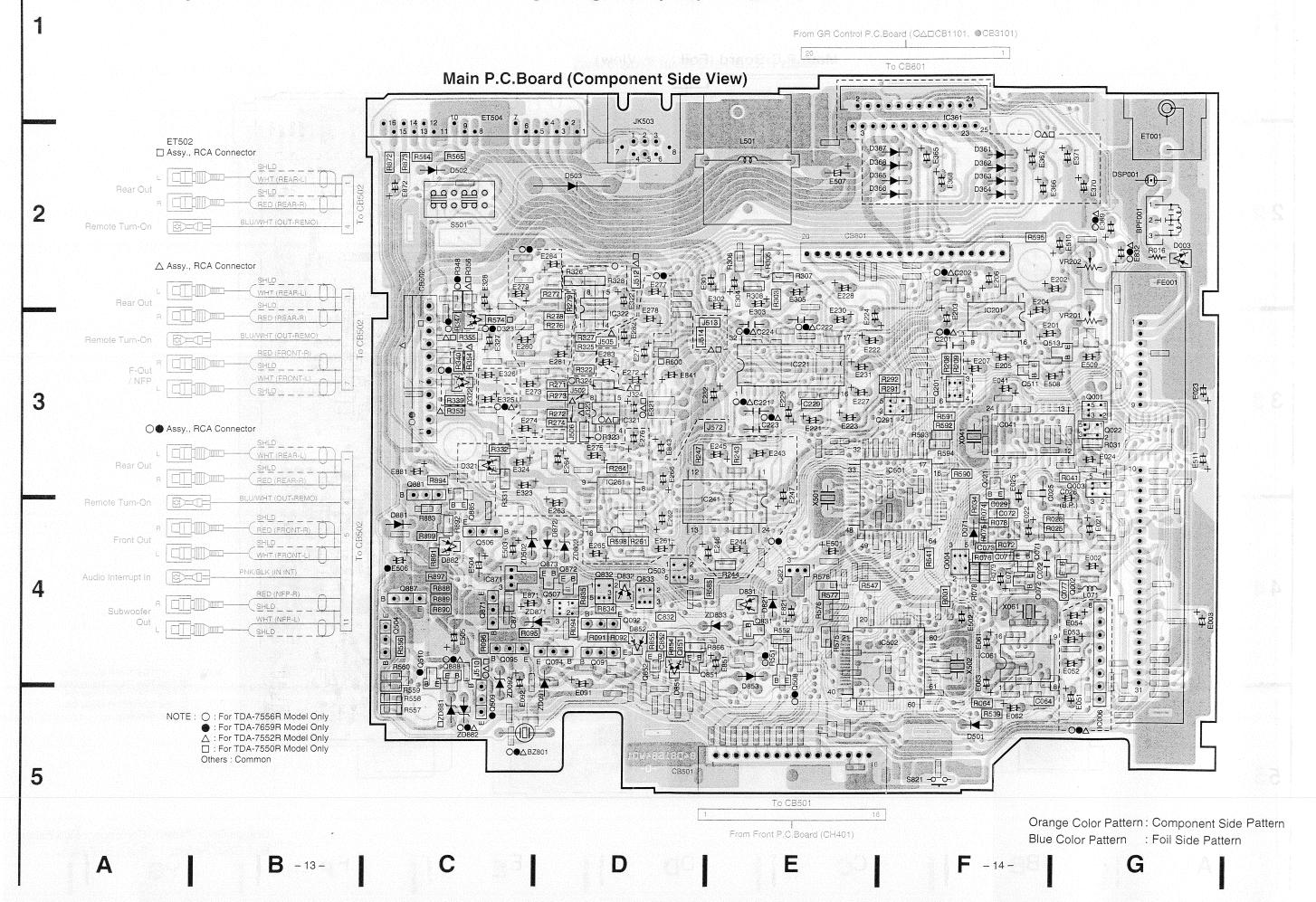
COMMON



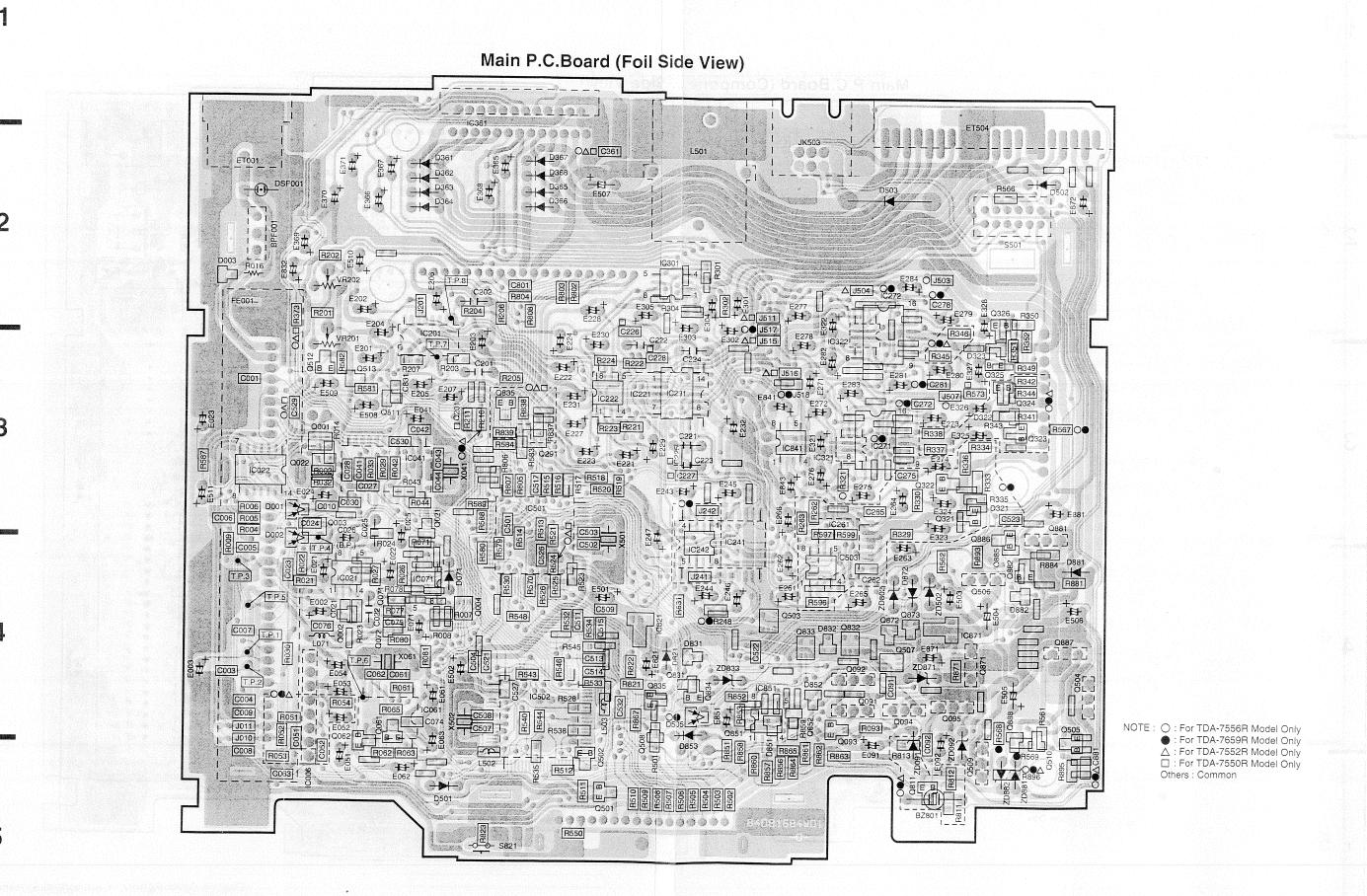
### **Block Diagram**



### Parts Layout on P.C. Boards and Wiring Diagram (1/4)



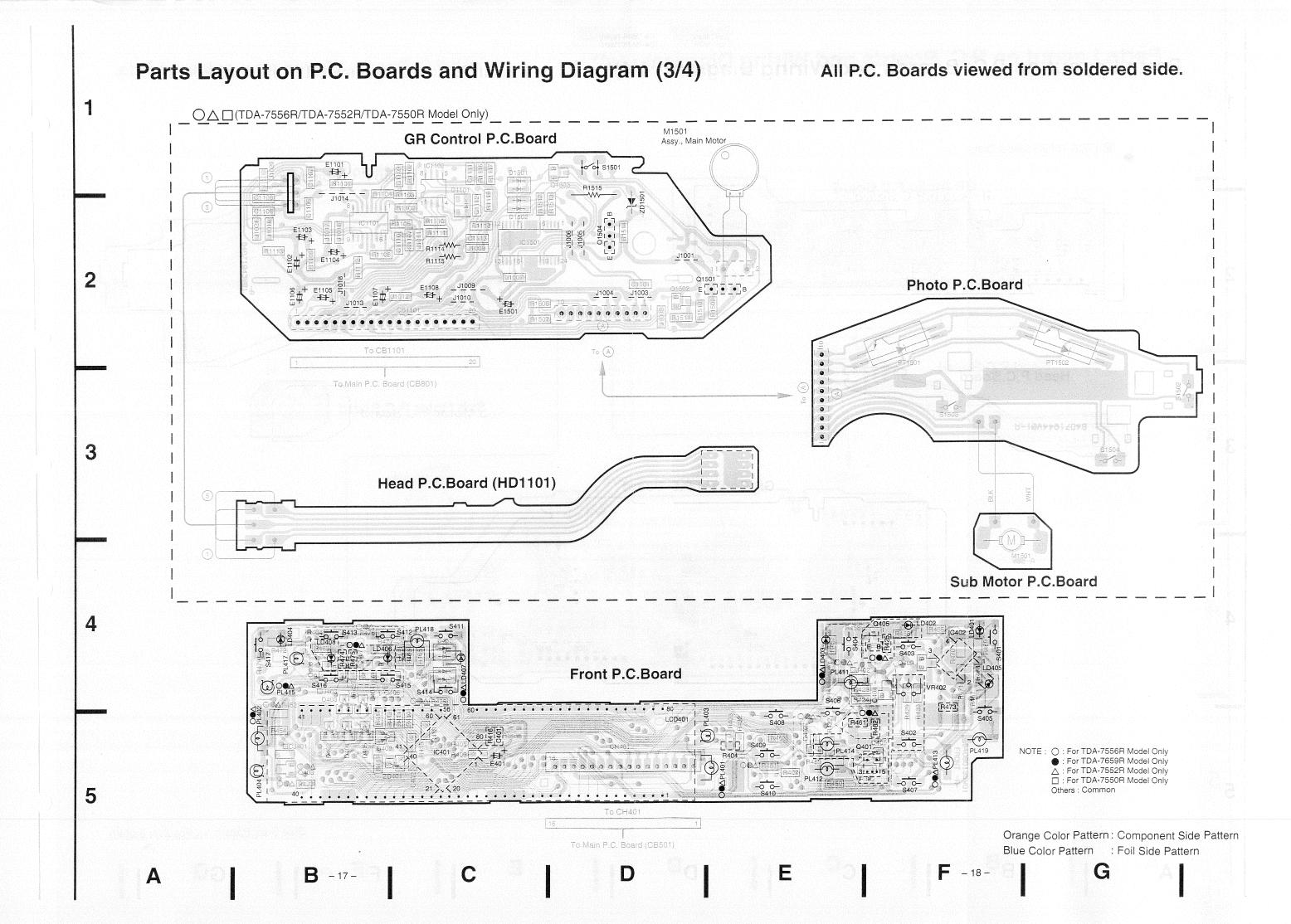
# Parts Layout on P.C. Boards and Wiring Diagram (2/4)

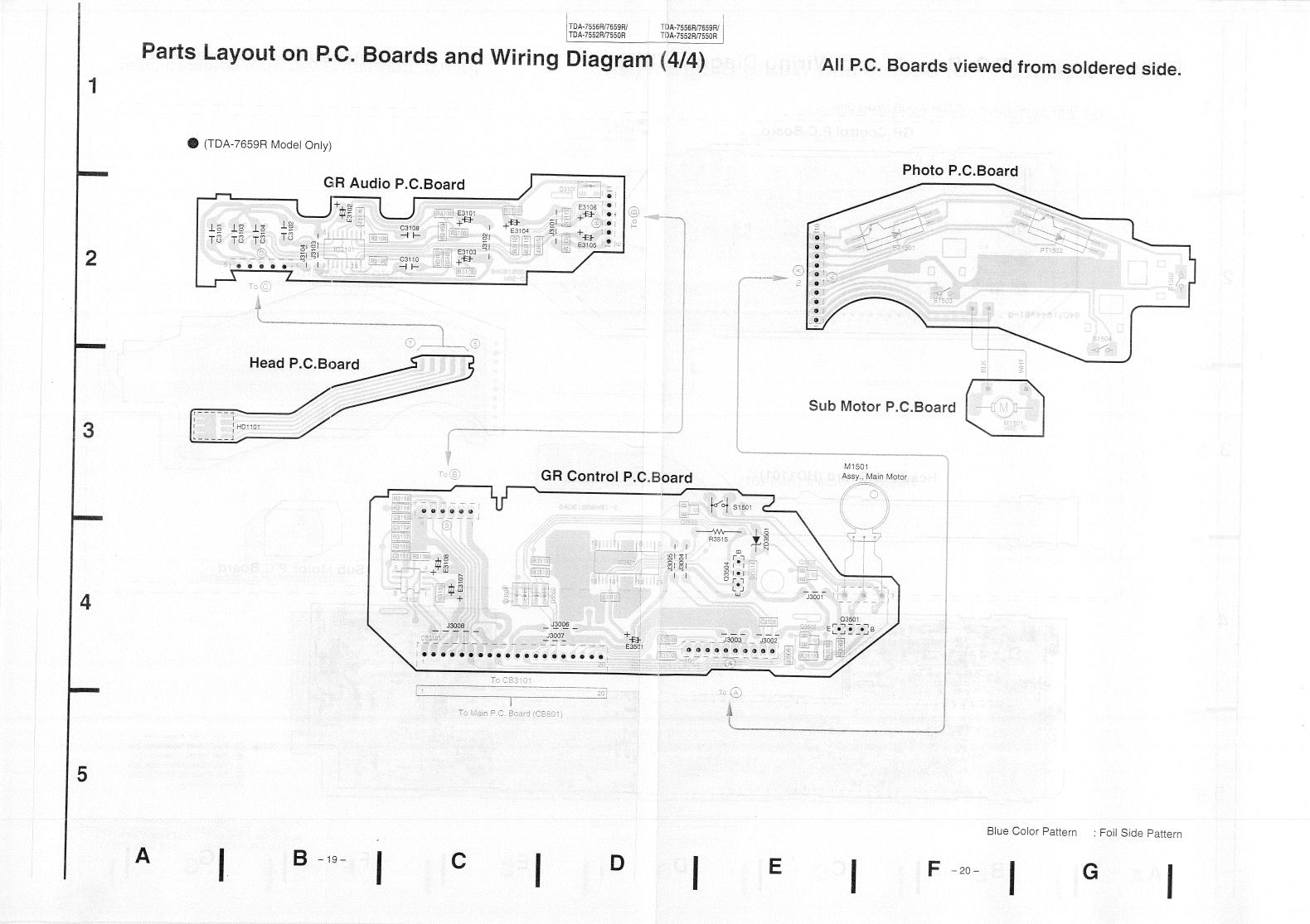


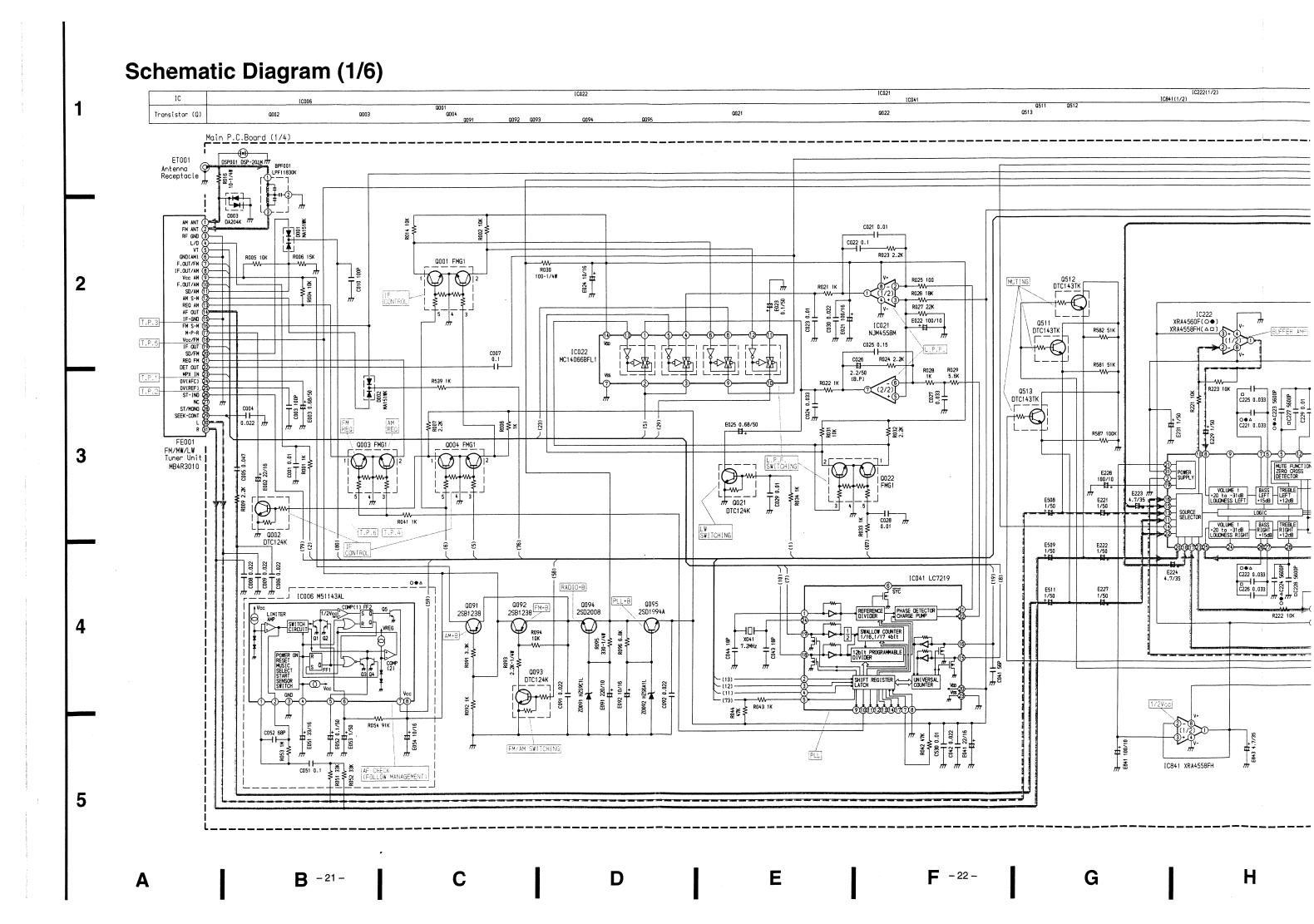
Orange Color Pattern: Component Side Pattern
Blue Color Pattern: Foil Side Pattern

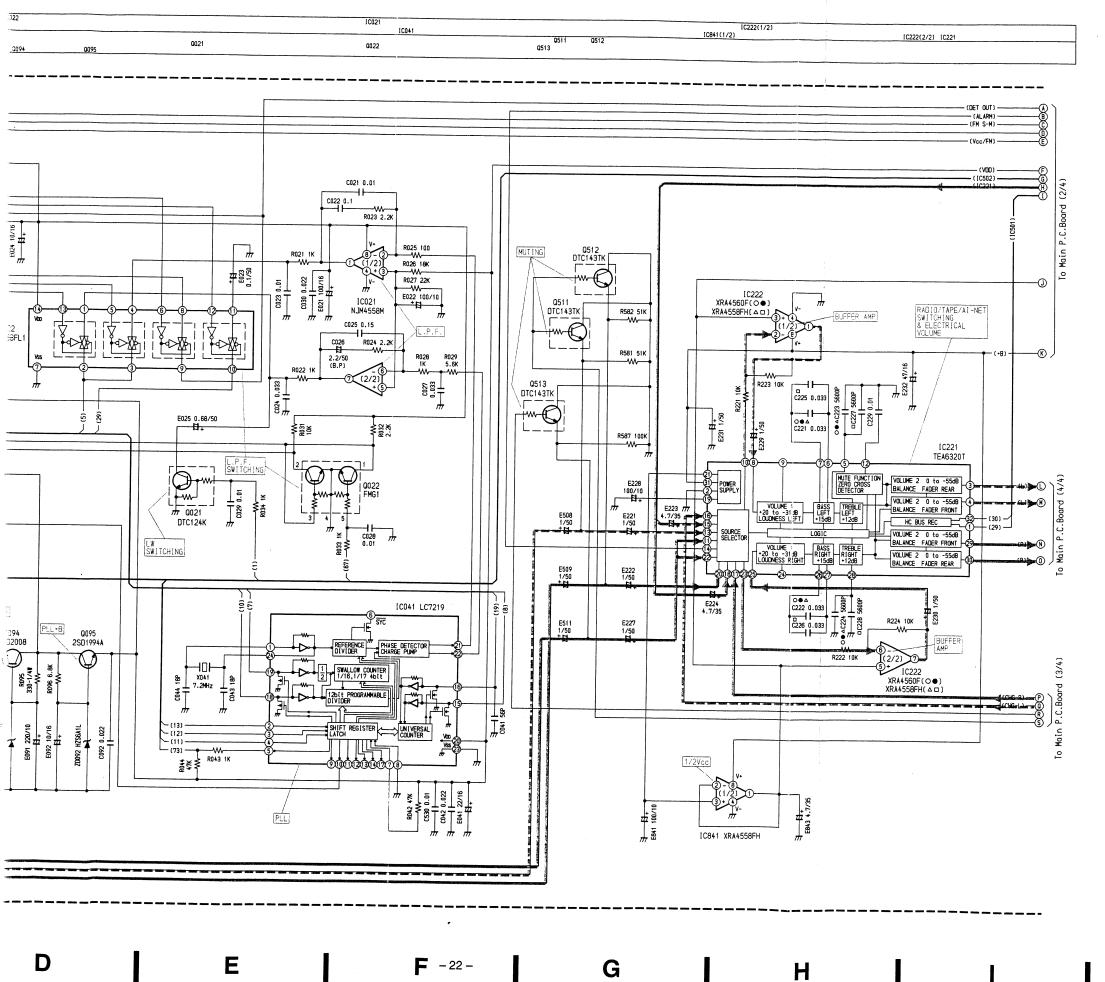
-16-

G









0	• 4	ZIC00	06		ICC	21					IC	02	2					IC22	22				
1	1.4	4V	FM		1	4.2	٧		FM		1	2.2	V/4.2\	7	RD	SONO	FF	1~3	4.2V		-M		
2	1.4	4V	FM	٦	2	4.2	v		FΜ		2	Τ.	4.2V	T				4	OV	_			
3	0'	v		1	3	4.2	V		FΜ		3	Τ.	4.2V	1				5~7	4.2V	-	М		
4	1.3	3V	FM	7	4	0\	/				4	2.2	V/5.1\	7	RD	SON/O	FF	8	8.5V				
5	0'	V	FM	7	5	2.7	٧		FM		5	9.2	20/00	1	RD	SON/O	FF	IC84	1				
6	0V/8	.9V M	OD. ON/OF	F	6	2.7	v		FΜ		6	9	9.2V	$\top$		FM	_	1~3	·				
7	0V/	5V M	OD. ON/OF	F	7	2.2V/4	.2V	RDS	ON	OFF	7	T	0V	T			$\neg$	4	4.3V	+-			
8	9'	v			8	9.2	v				8	2	2.4V	1		FM	$\neg$		0V	+-			
C	041			_							9	1	2.4V	T		FM	$\neg$	5~7 8	4.3V	- 17	APE		
_	1	OSC	T	Г	16	T o		FN		1	10	ov	/2.3V	5	SEE	K ON/C	OFF	8	8.5V				
	-5	4.9V	SEEK ON	┢	17	N				-	11		OV	$\top$		FM							
	6	NC	OLLIVOI	╀	18	2.5		AN	_	-	12	9	9.2V	$^{\dagger}$	_	FM							
	7	4.8V	FM	╀	19	2.6		FN		ł	13	OV.	/8.6V	+	-	FM/AM							
	8	OV		+	20	4.9		7 19	_	-	14	9	9.2V	+			$\neg$						
	9	NC	-	1	1,22	2.7		FN	_	1		_	004										
	10	4.8V	FM	-	23	0				1		1	_	)V/4\		Tue su	TE 0		1				
	-14	NC	+	-	24	OS						2	+	3V/0\				N/OFF	-				
	5	2.8V	AM	╁		-				ł		3	+-	V/5\				/OFF	-				
_				ــــــــــــــــــــــــــــــــــــــ						J		4	-	V/O\		SEE	K ON	JOFF	1				
	221											5	-	5V/0		IE MI	TEO	NOFF	-				
	1	4.9V	ļ		4	17	Au	dio		Chang	er			-	_	III IVIO	120	WOFF	J ———				
	2	OV			4	18	Au	dio		TAPE		IL.		$\perp$		E	С		В	<u></u>	MOD	E	
_	,4	Audio	-		-	9, 20		dio		FM		L	Q002	$\perp$	0V	//OV	0V/0	)V	0V/4V	IF M	UTE C	NOF	=
_	-8	4.2V	FM			21		2V		FM		IL.	Q021		0V	/OV	0V/0	ov	4.7V/0V	L'	W ON/	OFF	
	9	NC				22	Αυ			AM		L	Q091	9	9.1V	/9.1V	0V/S	9V	9V/8.5V		FM/A	М	
_	0	4.2V	FM		_	23	4.2			FM		1L	Q092	1	9V/	9.1V	9V/0.	7V 8	.4V/9.1V		FM/A	M	
	1	Audio	AM		_	24	N					11	2093	1	0V	/0V	0V/9	ov	4.8V/0V		FM/A	М	
	2					5~28	4.2	-+		FM		Ľ	Q094	$\perp$	9.	1V	13.6	V.	9.6V		TUNE	R	
	3	Audio	FM			9, 30	Au	-				11	2095	1	4.9	9V	13.6	v	5.5V		TUNE	R	
_	4	Audio	TP-AL		-	31	8.5					╌	Q511	1	0V	vov	0V/0	ov	5V/0V	IF M	JTE C	NOF	=
	5 .	Audio	TAPE			32	4.9	<b>3∨</b>				ł ├─	Q512	4	0V	70V	0V/0	)V	5V/0V	IF M	JTE C	N/OFF	=
_1	6	Audio	CD Char	ger								ا ا	2513	$\perp$	0V	/OV	0V/0	IV	5V/0V	IF MI	JTE C	N/OFF	:
		1	2	7	- 3	3		4		5	_	h.4	ODE		$\neg$								
_	001	0.40		.	-					J	١.	.41	JUE		-								

<Measuring Conditions>

1. Power Supply Voltage : DC14V

2. Measuring Meter : Digital Multi Meter

3. Measuring Point Reference : Between Ground

Q001 0V/9V 0V/9V 3V/0V 0V/0V 3V/0V SEEK ON/OFF

Q003 8V/0V 1V/0V 0V/4.5V 0V/0V 0V/4.5V REQ ON/OFF

Q022 0V/9V 9V/0V 0V/9V 0V/0V 4.9V/0V RDS ON/OFF

Measuring Conditions : No Signal Input FM: 98.1MHz

AM: 999kHz (MW)

TAPE: Blank Tape Play

NOTE: O: For TDA-7556R Model Only,

•: For TDA-7659R Model Only,

△: For TDA-7552R Model Only,

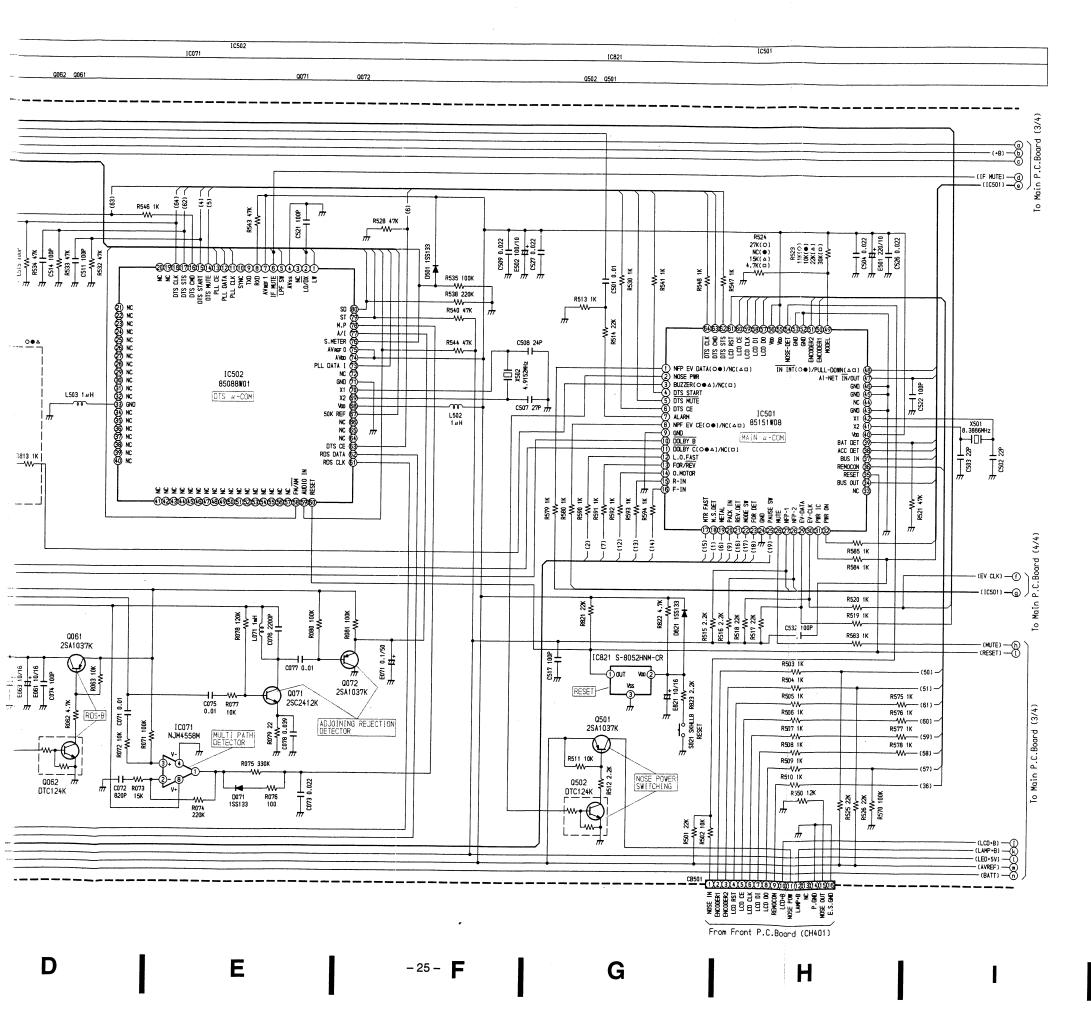
☐: For TDA-7550R Model Only,

Others: Common.

#### NOTE:

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$

**J** - 23 -



IC061			IC	071				IC502	2				
1	NC		1-	-3	4.8V	FM		1	5V	LW	60	0V/5V	RESETON/OFF
2	5V	FM		4	0V			2	5V/0V	LO/DX	61~63	DATA	
3, 4	2.4V	FM	5-	-7	NC			3	0V	FM	64~66	NC	
5	4.8V			В	9V			4	0V		67	5V/0V	RDSON/OFF
6	0V		IC	821				5	5V	FM	68	5V	
7,8	2.4V	FM			1.7V	RESETON	nee 1	6	٥v	FM	69, 70	osc	
9~11	ov		2		VOV	RESETON		7~9	5V	FM	71	ov	
12	4.9V		3		OV	HESE I OIW	JFF	10	0V	FM	72	NC	
13, 14	osc		ا ا					11~18	DATA		73	DATA	
15	NC		IC	841				19~32	NC		74, 75	5V	
16	4.8V	FM	1-	-3	4.3V			33	0V		76	OV	FM
			•	4	٥v			34~57	NC		77, 78	5V	FM
			5-	-7	4.3V	TAPE		58	5V/0V	FM/AM	79	0V/5V	ST/MONO
				В	8.5V			59	5V		80	ov	FM

C201			IC501					
1	NC		0●1	5V		27~30	5V	
2	8.5V		Δ□1	NC		31	5V/0V	PWR IC ON/OF
3	4.2V		2	5V/0V	DF ON/OUT	32	5V/0V	Power ON/OFF
4	4.2V	AVREF	○●△3	ov	BUZZER	33	NC	
○●△5	0V/3.5V/7.6V	NORMAL/DOLBY B/C	□3	NC		34	DATA	
[]5	0V/3.5V	NORMAL/DOLBY B	4	PS		35	0V/5V	RESET ON/OF
6	4.2V		5, 6	5V		36	DATA	
7	OV		7	ov	ALARM	37	DATA	
O●△8	0V		○●8	ov		38	5V/0V	ACC ON/OFF
<b>□8</b>	NC		△□8	NC		39	5V/0V	BATT ON/OFF
○●△9	OV		9	ov		40	5V	
<b></b> □9	NC		10	0V/5V	DOLBY B ON/OFF	41, 42	osc	
10	0V		Ο⊕Δ11	0V/5V	DOLBY C ON/OFF	43	OV	
11	4.2V		□11	NC		44	NC	
12	· 8.5V		12	5V/0V	FF-REW/OTHER	45, 46	OV	
13	1.2V		13	5V/0V	FOR/REV	47	0V/5V	CD Changer/E0
14	4.2V		14	5V/0V	TAPE · PLAY/OTHER	○●48	0V/5V	IN-INT ON/OF
15	0V		15, 16	OV		△∷48	ov	
16	NC		17	5V/0V	FF-REW/OTHER	49	T	
			18	ov		50, 51	5V	
			19	5V/0V	METAL/NORMAL	52, 53	ov	
			20	5V/0V	PACK-IN/OUT	54	2.5V/5V	NOSE ON/OF
			21~23	DATA		55, 56	5V	
			24	OV		57~59	DATA	
			25	5V/0V	TAPE · PLAY/PAUSE	60, 61	5V	
			26	OV		62~64	DATA	

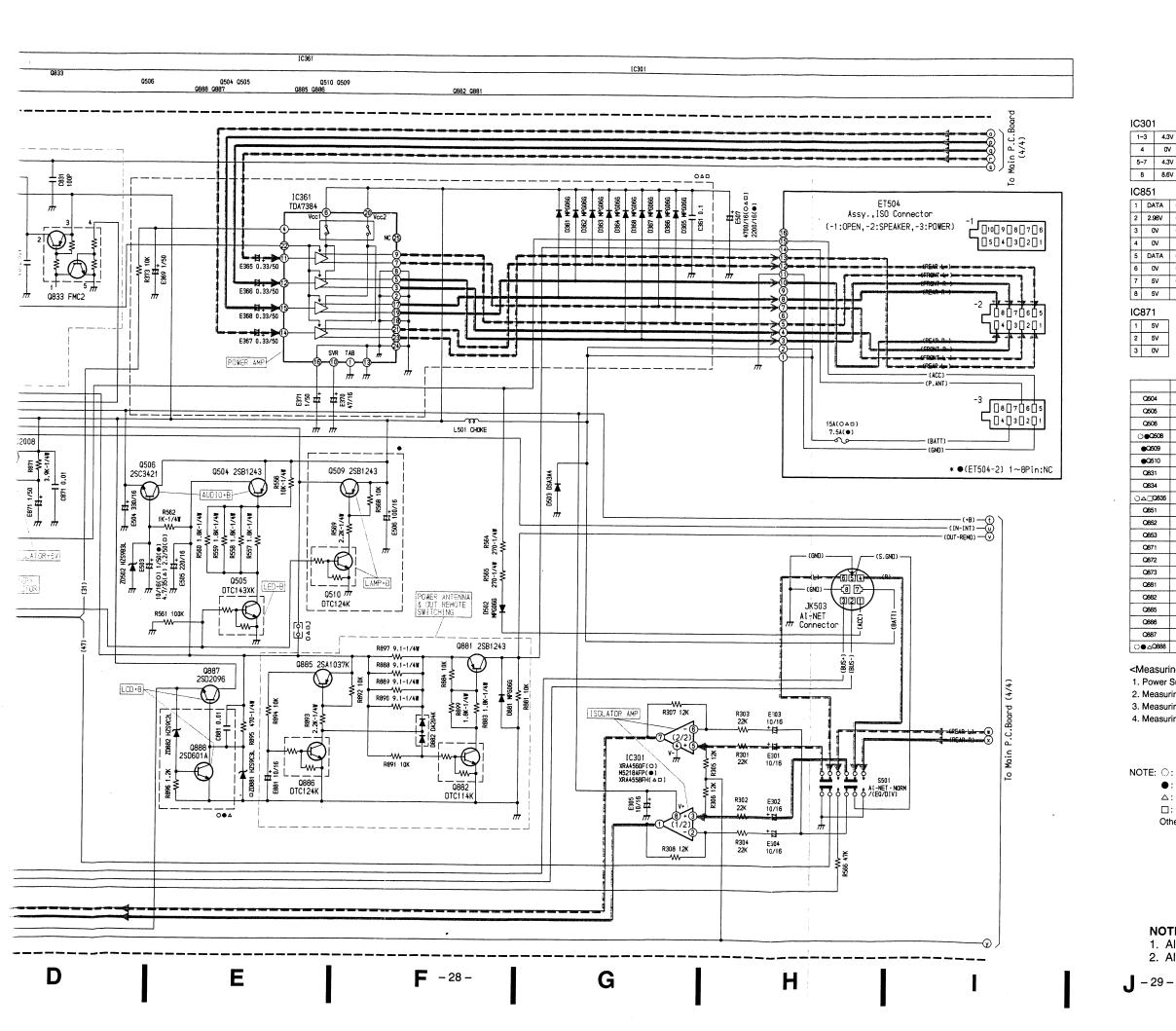
	1		2	3	4	5	6	MODE		
_⊜∆Q201	0V/3.7V/0V 4.9V/4.9V/		4.9V/0V	0V/4.3V/8.2V	5V/0V/5V	00/00/00	00/00/00	NORMAL/DOLBY B/C		
	E	С	В	MODE	- 1	-	Conditions			
Q061	4.9V	4.8V	4.2V	4.2V FM		1. Power Supply Voltage : DC14V				
Q062	٥٧	0V	9V	FM	2.1	: Digital Multi Me				
Q071	OV	8.6V	0.9V		3. N	Aeasuring F	Point Refer	ence: Between Groun	d	
Q072	4.8V	OV	4.8V		4. N	Measuring (	Conditions	: No Signal Input		
Q501	5V/5V	5V/0V	4V/0V	NOSE P. ON/	OFF			FM: 98.1MHz		
Q502	00/00	0V/4V	5V/0V	NOSE P. ONG	OFF			AM : 999kHz (M		
_⊜∆Q811	13.8V	OV	ov					TAPE: Blank Ta	pe Pla	

NOTE: O: For TDA-7556R Model Only, •: For TDA-7659R Model Only, △: For TDA-7552R Model Only, : For TDA-7550R Model Only, Others : Common.

#### NOTE:

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads. P = 1,000,000

**Schematic Diagram (3/6)** Q504 Q505 Q888 Q887 Transistor (Q) Main P.C.Board (3/4) (-1:OPEN,-2 77 Q831 DTC124K 0835 m DTC124K E371 1/50 1/50 ##+ E370 47/16 Q871 2SD2008 Q509 2SB1243 D503 DSA3A4 3.9 E871 1/50 REGULATOR+5V 0873 m DTC114TK R552 /// 47K(○●) VBATTERY DETECTOR JK503 At-NET (34) Q881 2SB1243 R888 9.1-1/4W 0885 2SA1037K (RESET) R890 9.1-1/4W LCD+8 R307 12K Tv-IC851 NJM2903M Q853 DTA124 0882 DTC114K AT NET BUST R857 10K H G - 28 -Ε D C **B** -27-



1-	-3	4.3\	7	CD Changer	1, 2	OV		14, 15	Audio	
-	4	0V			3	Audio		16	5V	FM
5-	-7	4.3\	,	CD Changer	4	5V/0V	PWR IC ON/OFF	17	Audio	
1	В	8.6V		5	Audio		18	OV		
C	851				6	13.8V		19	Audio	
1	DATA CD Changer		7 .	Audio		20	13.8V			
2	2.9	-	CD Changer		8	0V		21	Audio	
3	0	-		Changer	9	Audio		22	0V/5V	MUTE ON/OFF
4	0			Onlanger	10	5V	FM	23	Audio	
5	DA	-	Cr	Changer	11, 12	Audio		24, 25	NC	
6	0			Changer	13	٥٧				
7	5			Changer Changer						
8	5			, Change						

CE	3/1		1	2	3	4	5	MODE
1	5V	Q503	NC	5V/0V	5V/5V	5V/0V	00/00	POWER ON/OFF
2	5V	Q507	NC	5V/0V	5V/5V	5V/0V	00/00	ACC ON/OFF
3	0V	Q832	0V/13.8V	13.8V/0V	13.8V/13.8V	5V/0V	00/00	MUTE ON/OFF
		Q833	NC	13.8V/0V	13.8V/13.8V	5V/0V	00/00	IF MUTE ON/OFF

		r		
	E	С	В	MODE
Q504	13.8V/13.8V	12V/0V	0V/13V	POWER ON/OFF
Q505	00/00	0V/13.8V	5V/0V	POWER ON/OFF
Q506	8.6V/OV	13.8V/13.8V	0V/9.2V	POWER ON/OFF
<b>⊜Q508</b>	5V/5V	0V/4.9V	0V/4.9V	IN-INT ON/OFF
<b>⊕</b> Q509	13.7V/13.7V	13.7V/0V	0V/13V	POWER ON/OFF
<b>⊕</b> Q510	5V/5V	0V/13V	5V/0V	POWER ON/OFF
Q831	0V/9.1V	00/00	6.5V/0V	ACC ON/OFF
Q834	0V/0V	4.2V/0V	13.8V/13.8V	POWER ON/OFF
O△□ <b>Q835</b>	5.4V	0V	0V	
Q851	5V	2V	5V	CD Changer
Q852	ov	2.99V	0V	CD Changer
Q853	5V/5V	2V/0V	5V/0V	RESET ON/OFF
Q871	5V	13.8V	5.6V	
Q872	5V/5V	5V/0V	0V/5V	ACC ON/OFF
Q873	00/00	0V/5V	5.6V/0V	ACC ON/OFF
Q881	13.7V	13.6V	13V	POWER ON
Q882	0V	7V	٥٧	POWER ON
Q885	13.7V	٥٧	13.7V	POWER ON
Q886	OV	13.6V	OV	POWER ON
Q887	13.8V/0V	13.8V/13.8V	0V/5V	POWER ON/OFF
⊜∆Q888	9.5V	13.8V	0.6V	

#### <Measuring Conditions>

 Power Supply Voltage : DC14V

2. Measuring Meter : Digital Multi Meter 3. Measuring Point Reference: Between Ground

4. Measuring Conditions : No Signal Input

FM: 98.1MHz

AM: 999kHz (MW)

TAPE: Blank Tape Play

NOTE: O: For TDA-7556R Model Only,

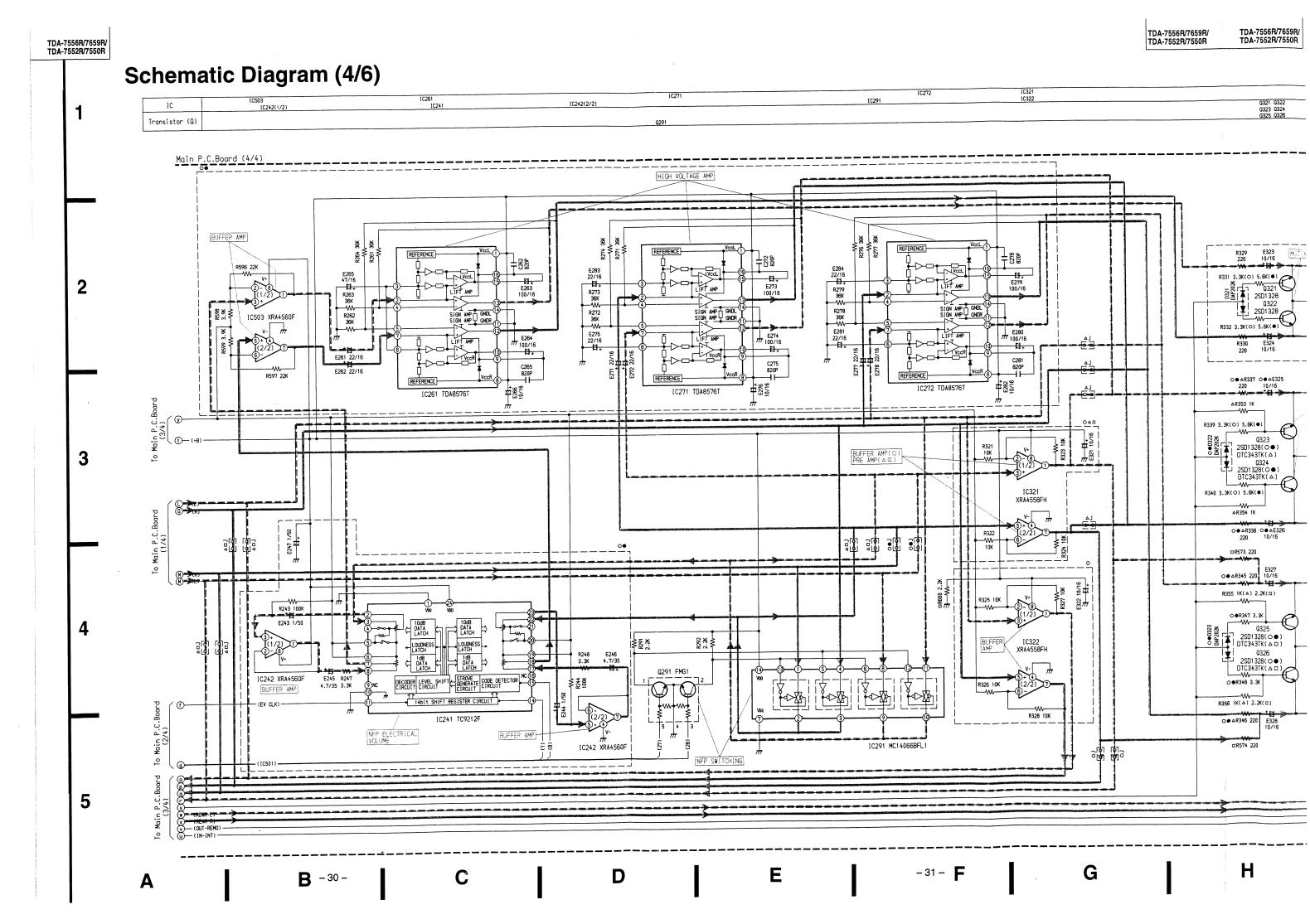
•: For TDA-7659R Model Only,

△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,

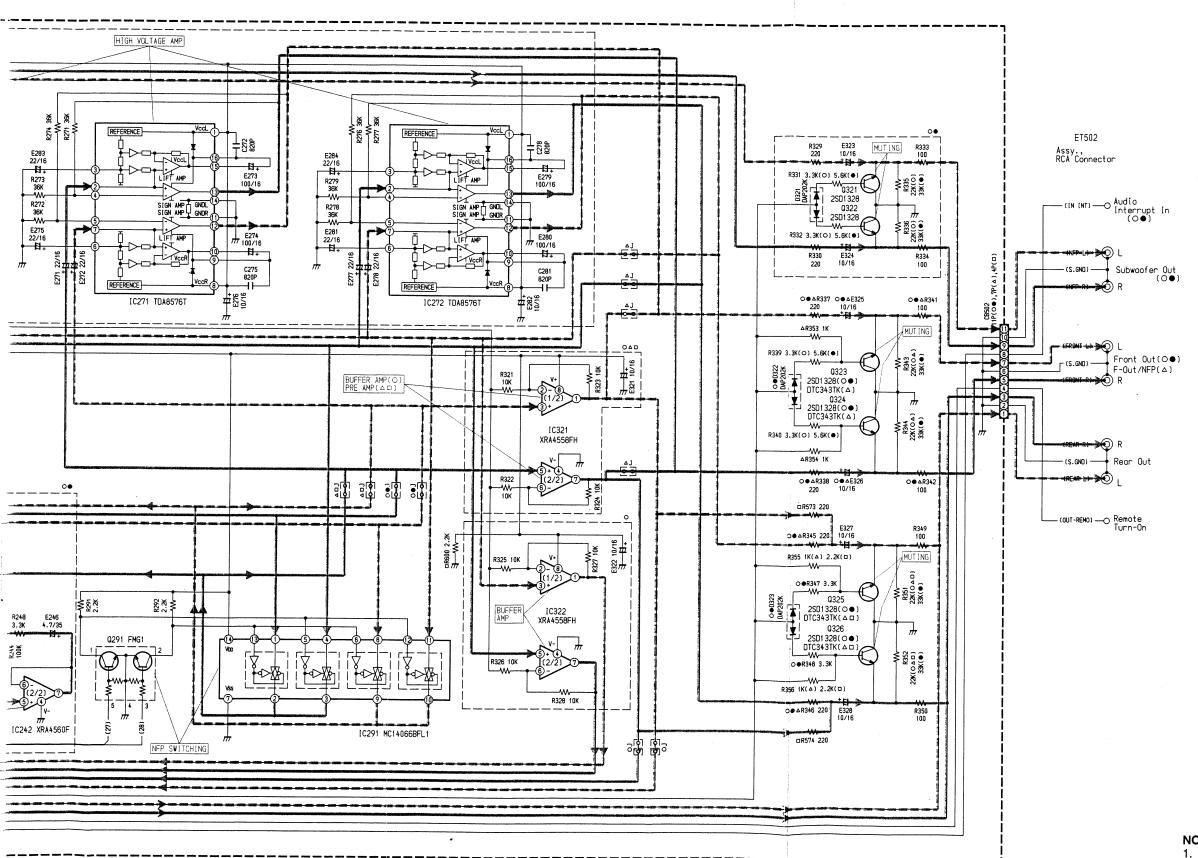
Others : Common.

### NOTE:

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$



[0242(2/2) IC322 0321 0322 0323 0324 0325 0326



G

H

D

	C241			○●IC261, 271, 272					
1	0V	13	NC	1	8.5V	10	2.7V		
2,3	4.3V	14	5V	2,3	3.6V	11	0V		
4	NC	15	0V	4, 5	3.5V	12, 13	7.3V		
5~8	4.3V	16	NC	6, 7	3.6V	14	OV		
9	NC	17~20	4.3V	8	8.5V	15	2.6V		
10	0V	21	NC	9	7.8V	16	7.8V		
11	5V	22, 23	4.3V						
12	NC	24	8.6V	1					

	C242		IC291		
1~3	4.3V	FM	1~4	Audio	
4	0V		5, 6	0V/8.5V	NFP SW ON/OFF
5~7	4.3V	FM	7	OV	
8	8.6V		8~11	Audio	
$\bigcirc \land \Gamma$	7IC321	1	12, 13	0V/8.5V	NFP SW ON/OFF
		ı	14	8.5V	
1~3	4.3V	FM	001	0503	
4	0V		1~3	4.3V	
5~7	4.3V	FM	1		
<u> </u>			4	0V	
8	8.6V		5~7	4.3V	
			8	8.6V	

	1	2	3	4	5	MOD
Q291	DATA	DATA	DATA	0V	DATA	NFP

i	E	С	В	MODE
<b>⊙⊕</b> 0321	00/00	00/00	0V/13.8V	MUTE ON/OFF
O●C322	00/00	00/00	0V/13.8V	MUTE ON/OFF
⊙⊕∆Q323	00/00	00/00	0V/13.8V	MUTE ON/OFF
○●△Q324	00/00	00/00	0V/13.8V	MUTE ON/OFF
Q325	00/00	00/00	0V/13.8V	MUTE ON/OFF
Q326	07/07	00/00	0V/13.8V	MUTE ON/OFF

#### <Measuring Conditions>

- 1. Power Supply Voltage : DC14V
- 2. Measuring Meter : Digital Multi Meter
- 3. Measuring Point Reference: Between Ground
- 4. Measuring Conditions : No Signal Input FM: 98.1MHz
  - AM: 999kHz (MW)
  - TAPE: Blank Tape Play

NOTE: : For TDA-7556R Model Only,

- •: For TDA-7659R Model Only,
- △: For TDA-7552R Model Only,
- ☐: For TDA-7550R Model Only,
- Others: Common.

NOTE:

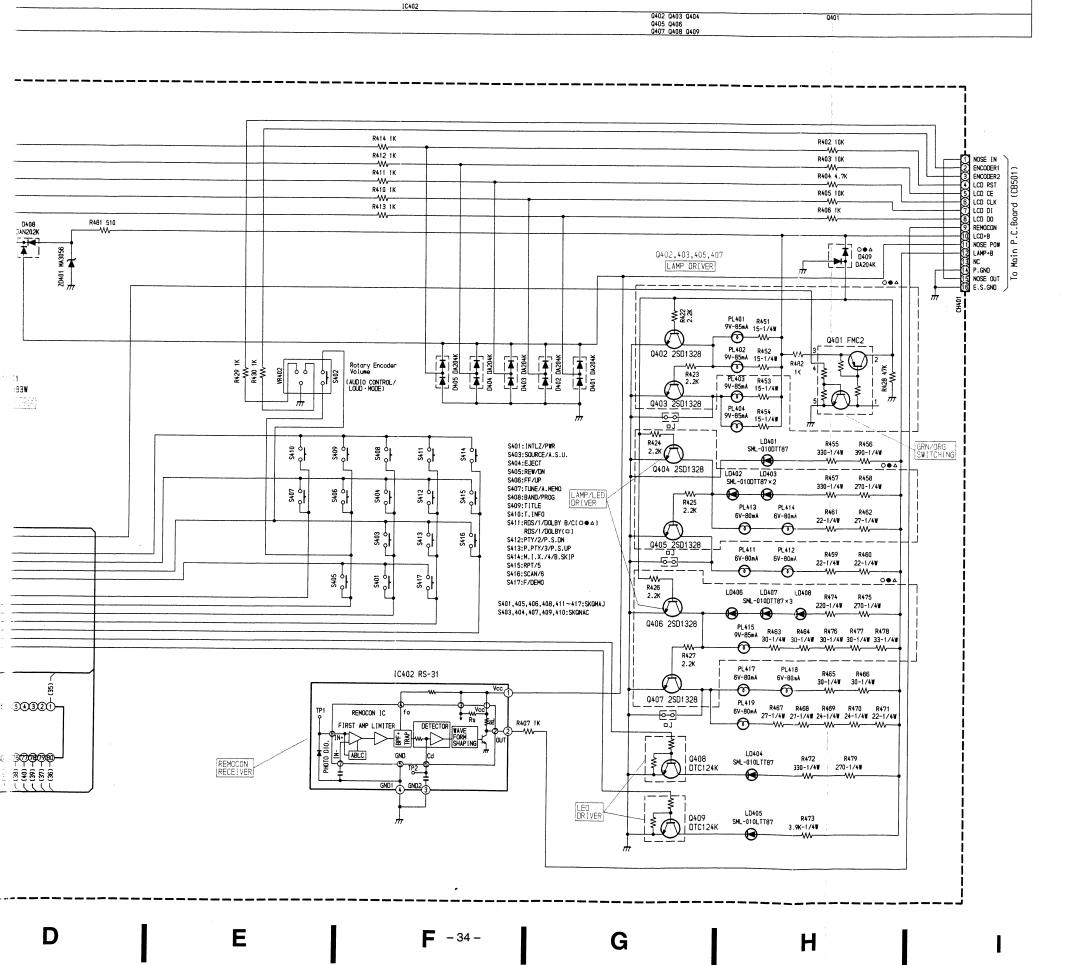
- 32 -

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads. P = 1,000,000

#### **Schematic Diagram (5/6)** Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Transistor (Q) Front P.C.Board R412 1K R403 10K R410 1K R405 10K R481 510 □ Δ D Δ D Δ D Δ 20 4 K Q402,403,405,407 E401 6.8/6.3 E402 0.047 LAMP DRIVER SEGMENT DRIVER & LATCH PL401 R451 9V-85mA 15-1/4W 0402 2SD1328 0405 0A204K R423 2.2K PL403 R453 9V-85mA 15-1/4W IC401 LC75883W PL404 R454 9V-85mA 15-1/4W LCO DRIVER R424 2.2K Q404 2SD1328 S401: [NTLZ/PWR S403: SOURCE/A.S.U. S404:EJECT S405:REW/DN LD402 LD403 SML-010DTT87×2 R457 R458 330-1/4W 270-1/4W \$406: FF/UP S408:FF/UP S407:TUNE/A.MEMO S408:BAND/PROG S409:TITLE \$410:T.[NF0 S4111:RDS/1/DDLBY B/C(○●△) RDS/1/DDLBY(□) S412:PTY/2/P.S.DN Z YYYY Z **O**-\_\_0405\_2SD1328\_ S413:P.PTY/3/P.S.UP S414:M.I.X./4/B.SKIP PL411 6V-80mA S415:RPT/5 S416:SCAN/6 S417:F/DEM0 R426 2.2K LD406 LD407 LD408 R474 R475 SNL-0100T187×3 220-1/4W 270-1/4W S401,405,406,408,411~417:SKQMAJ S403,404,407,409,410:SKQNAC **❸ ❸ ❸** Q406 2SD1328 PL418 6V-80mA R465 R466 30-1/4W 30-1/4W <del>-</del>@-<del>-</del>@-0407 2SD1328 PL419 6V-80mA 27-1/4W 27-1/4W 24-1/4W 24-1/4W 22-1/ W W W W W REMOCON IC DETECTOR WAVE FORM SHAPING FIRST AMP LIMITER LCD401 LCD Display ABLC ABLC LD404 SML-010LTT87 R472 R479 330-1/4W 270-1/4W -02345678965235555555960023665666660000000000 (55) | (56) | (57) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (58) | (5 LD405 R473 SML-010LTT87 3.9K-1/4W **B** -33-D **F** -34-G H

2

3



IC401			IC.	402
1. 2	5V		1	5V
3	0V/5V		2	DATA
4~60	DATA		3	0V
61~69	PS		4	٥٧
70	5.6V			
71,72	NC			
73, 74	0V			
75	osc	1		
76	5V			
77~80	DATA			

	1	2	3	4	5	MODE
⊙⊕∆Q401	NC	9V/0V	9.6V/9.6V	0V/5V	0V/0V	GRN/ORG
			•			

	E	С	В	MODE
○●△Q402	00/00	13.8V/0V	0V/9V	GRN/ORG
○●△Q403	00/00	0V/13.8V	13.8V/0V	GRN/ORG
⊖ <b>△</b> Q404	00/00	13.8V/0V	0V/9V	GRN/ORG
○●△Q405	00//00	0V/13.8V	13.8V/0V	GRN/ORG
○●△Q406	00/00	13.8V/0V	0V/9V	GRN/ORG
∪ <b>⊕</b> △Q407	0V/0V	0V/13.8V	13.8V/0V	GRN/ORG
Q408	ov	ov	5V	
Q409	OV	ov	5V	

<Measuring Conditions>

1. Power Supply Voltage : DC14V

2. Measuring Meter Digital Multi Meter

3. Measuring Point Reference: Between Ground

4. Measuring Conditions : No Signal Input FM: 98.1MHz

AM: 999kHz (MW)

TAPE: Blank Tape Play

NOTE: : For TDA-7556R Model Only,

•: For TDA-7659R Model Only,

△: For TDA-7552R Model Only,

: For TDA-7550R Model Only,

Others: Common.

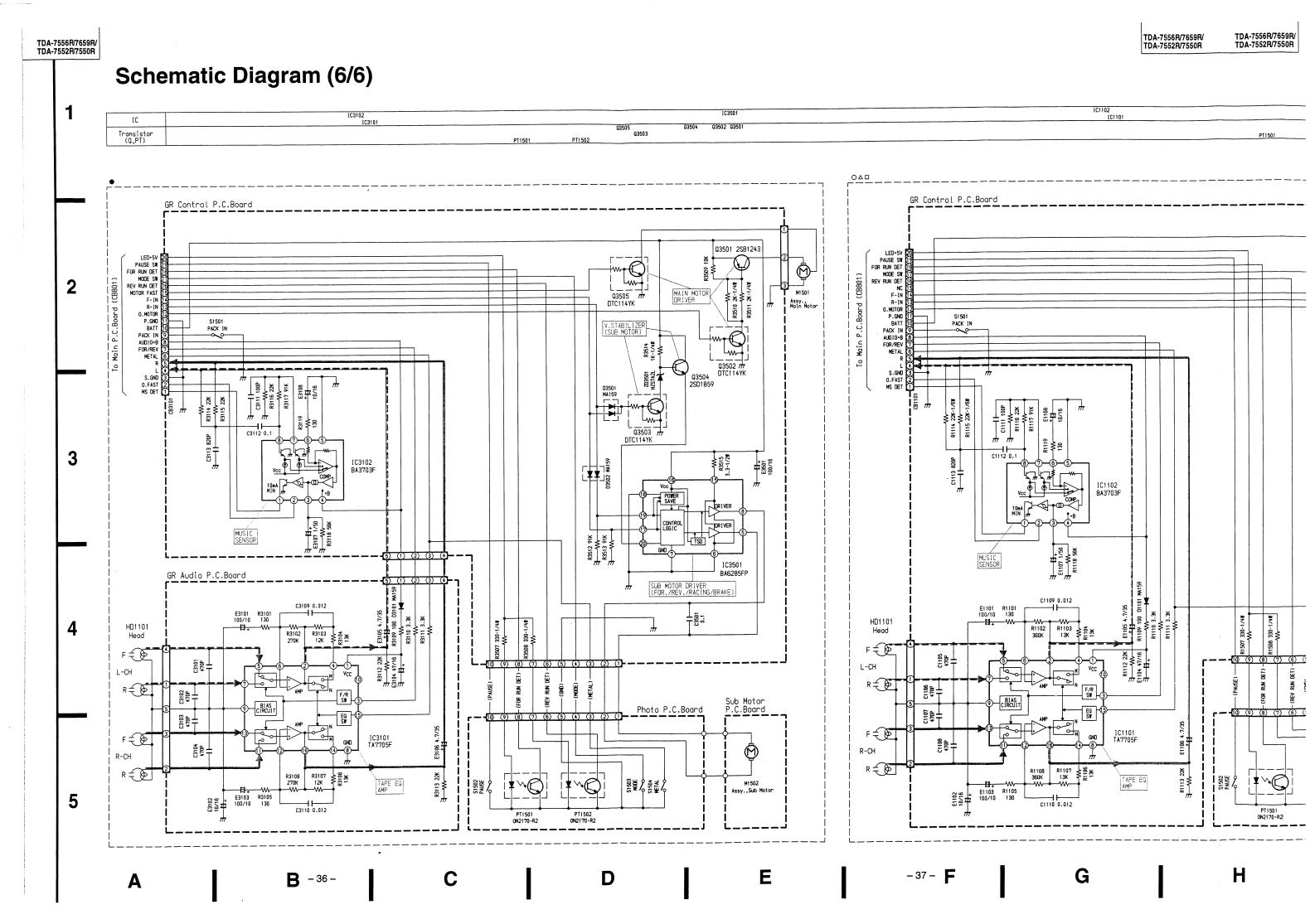
NOTE:

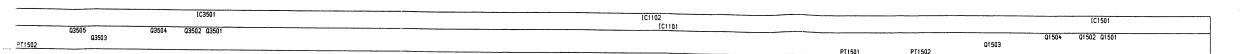
**J** - 35 -

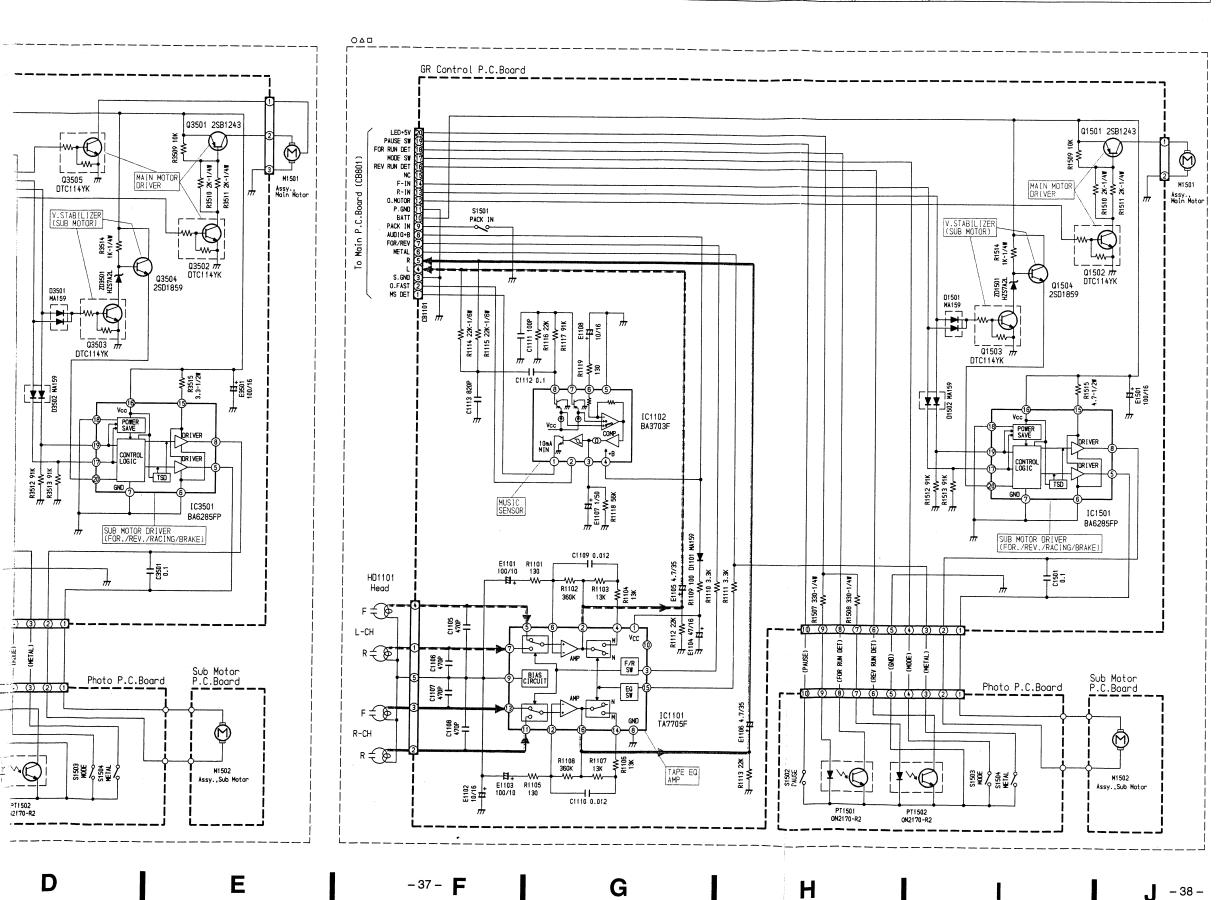
1. All resistance values are in ohms. K = 1,000

2. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$ 

K







	○△□IC1101 ●IC3101					△□IC		○△□IC150 <sup>-</sup> ●IC3501		
1	10.7V	9	3V	1	1	5.2V	]	1~4	NC	
2	3.1V	10	NC		2	0V	1	5~8	0V	1
3	5.2V	11	3V		3	0V	1	9~14	NC	
4	3.1V	12	3V		4	12V		15	12V	
5	3V	13	3V	1	5	0V	1	16	12V	
6	3V	14	3.1V		6	0.6V		17~19	0V	
7	3V	15	0V		7	0V		20	12V	
8	0V	16	3.1V	1	8	0V	1	21~24	NC	

	E	С	В
O△□Q1501	12V	11.8V	11.3V
O∆□Q1502	0V	0.1V	5V
O△□ <b>Q</b> 1503	0V .	5.5V	OV
O△□ <b>Q1504</b>	11.6V	12V	12V
<b>⊕</b> Q3501	12V	11.8V	11.3V
●Q3502	٥٧	0.1V	5V
●Q3503	0V	5.5V	OV
<b>⊕</b> Q3504	11.6V	12V	12V
●Q3505	0V	0.5V	0V

#### <Measuring Conditions>

1. Power Supply Voltage DC12V

2. Measuring Meter Digital Multi Meter 3. Measuring Point Reference : Between Ground

4. Measuring Conditions No Signal Input FM: 98.1MHz

AM: 999kHz (MW)

TAPE: Blank Tape Play

NOTE: : For TDA-7556R Model Only,

•: For TDA-7659R Model Only, △: For TDA-7552R Model Only,

: For TDA-7550R Model Only,

Others: Common.

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads.

$$P = \frac{1}{1,000,000}$$

K

Sy	mbol	Part No.	Description	S	ymbol	Part No.	Description
	No.			L	No.		1
Δ	Q324	48T62967F33	ČP., DTC343TK				
0	Q325	48T63788F04	CP., 2SD1328		Diode	es / Surge Pro	
•	Q325	48T63788F04	CP., 2SD1328		D001	48T52446F01	CP., MA151WK
Δ	Q325	48T62967F33	CP., DTC343TK		D002	48T52446F01	CP., MA151WK
	Q325	48T62967F33	CP., DTC343TK		D003	48T64134F01	CP., DA204K
				1	D071	48T68828F11	1SS133
0	Q326	48T63788F04	CP., 2SD1328	0	D321	48T63463F01	CP., DAP202K
•	Q326	48T63788F04	CP., 2SD1328				
Δ	Q326	48T62967F33	CP., DTC343TK	•	D321	48T63463F01	CP., DAP202K
	Q326	48T62967F33	CP., DTC343TK		D322	48T63463F01	CP., DAP202K
	Q501	48T63420F01	CP., 2SA1037K		D322	48T63463F01	CP., DAP202K
					D323	48T63463F01	CP., DAP202K
	Q502	48T62967F03	CP., DTC124K		D323	48T63463F01	CP., DAP202K
ı	Q503	48T73888F12	CP., FMC2		1		
ı	Q504	48T84366F01	2SB1243	0	D361	48T85270W02	MPG06G
ı	Q505	48T62967F05	CP., DTC143XK		D361	48T85270W02	MPG06G
1	Q506	48T69176F01	2SC3421	1 -	D361	48T85270W02	MPG06G
1					D362	48T85270W02	MPG06G
ı	Q507	48T73888F12	CP., FMC2		D362	48T85270W02	MPG06G
0	Q508	48T62966F01	CP., DTA143	`			
	Q508	48T62966F01	CP., DTA143	L	D362	48T85270W02	MPG06G
	Q509	48T84366F04	2SB1243		D363	48T85270W02	MPG06G
1:	Q510	48T62967F03	CP., DTC124K		D363	48T85270W02	MPG06G
"					l	48T85270W02	MPG06G
1	Q511	48T62967F23	CP., DTC143TK	_	D364	48T85270W02	MPG06G
1	Q512	48T62967F23	CP., DTC143TK	$\circ$		101002701102	Wil 4004
1	Q513	48T62967F23	CP., DTC143TK	١.	D364	48T85270W02	MPG06G
	Q811	48T62967F03	CP., DTC124K		D364	48T85270W02	MPG06G
0	Q811	48T62967F03	CP., DTC124K		D365	48T85270W02	MPG06G
▮ •	GOTT	401023071-03	OF., DIOI24K	0	D365	48T85270W02	MPG06G
١.	0011	49T62067E02	CR DTC124K		D365	48T85270W02	MPG06G
Δ	Q811	48T62967F03	CP., DTC124K CP., DTC124K		10363	401002/04402	MFGU0G
l	Q831 Q832	48T62967F03	· ·		D366	407050701400	MPG06G
ı	Q833	48T73888F12	CP., FMC2		D366	48T85270W02 48T85270W02	MPG06G
ı		48T73888F12	CP., FMC2	_	D366		
ı	Q834	48T62967F03	CP., DTC124K		ŀ	48T85270W02	MPG06G
١.	0005	49760067500	CD DTC124K	0	D367	48T85270W02	MPG06G
0	0005	48T62967F03	CP., DTC124K		D367	48T85270W02	MPG06G
	Q835	48T62967F03 48T62967F03	CP., DTC124K CP., DTC124K		D367	48T85270W02	MPG06G
1 "	Q835				D369	Ī	2332
1	Q851	48T52437F01	CP., 2SB709A		D368	1	MPG06G
1	Q852	48T52438F01	CP., 2SD601A		D368	48T85270W02	MPG06G
1	0852	48T62966E02	CP DTA124		D368	_	MPG06G
1	Q853	48T62966F03	CP., DTA124		D501	48T68828F11	15S133
	Q871	48T15289W04	2SD2008		DECC	407050701400	MBGGGG
	Q872	48T62966F03	CP., DTA124		D502		MPG06G
1	Q873	48T62967F09	CP., DTC114TK	1	D503	48T68580F03	DSA3A4
1	Q881	48T84366F04	2SB1243		D505	1	CP., MA152WK
1	0000	49T62067F00	CB DTC114K	•	D505	48T25651W02	CP., MA152WK
1	Q882	48T62967F02	CP. DTC114K	I	D821	48T68828F11	155133
1	Q885	48T63420F01	CP., 2SA1037K	1	Dest	40700 400504	CD DANIONOU
ſ	Q886	48T62967F03	CP., DTC124K	1	D831	I _	ICP., DAN202K
	Q887	48T25169W01	2SD2096	1	D832	48T63462F01	CP., DAN202K
0	Q888	48T52438F01	CP., 2SD601A	1	D851	48T63463F01	CP., DAP202K
			lan consect	1	D852	48T63462F01	CP., DAN202K
•	Q888	48T52438F01	CP., 2SD601A		D853	48T68828F11	1SS133
Δ	Q888	48T52438F01	CP., 2SD601A				
<u></u>		l					

### **Electrical Parts List**

Resistor: Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

			Capacitor : <sub>u</sub> F=	micro	farads	pF=picofarad	s
		Abbrevia			/mbol	Part No.	Description
RES	S.= Res	sistor	CAP.= Capacitor		No.		
C.F.	.= Carl	oon Film	ELY.= Electrolytic		IC321	51T65379F22	XRA4558FH
M.F	.= Met	al Film	CER.= Ceramic		IC321	51T65379F22	XRA4558FH
M.C	).= Met	tal Oxide Film	MYL.= Mylar	0	IC322	51T65379F22	XRA4558FH
M.P	.= Met	al Plate	TAN.= Tantalum	0	IC361	51T85153W01	TDA7384
TR.	= Trar	nsistor	POLY.= Polystyrol	Δ	IC361	51T85153W01	TDA7384
TRA	ANS.=	Transformer	PP. = Polypropylene				
CP.	= Chi	0	PLT.= Polyethylene		IC361	51T85153W01	TDA7384
			PF. = Polyester Film		IC501	51T85151W08	85151W08
Sym	nbol	Part No.	Description		IC502	51T85088W01	85088W01
N	1		·	0	IC503	51T92001F21	XRA4560F
				•	IC503	51T92001F21	XRA4560F
1	Main	P.C.Board		i I			
				H	IC821	51T95014F13	S-8052HNM-CR
l (	C's				IC841	51T65379F22	XRA4558FH
		51T67915F01	M51143AL		IC851	51T93332F01	NJM2903M
• 10	2006	51T67915F01	M51143AL	П	IC871	51T95014F09	S-8054ALR-LN
△ 10	2006	51T67915F01	M51143AL	H		1	
IC	0021	51T93336F01	NJM4558M	IL.			
iC	C022	51T40941U03	MC14066BFL1		-		
1				IL		sistors	
10	C041	51T35504W02	LC7219		Q001	48T73888F08	CP., FMG1
10	C061	51T55054W02	SAA6579T	11	Q002	48T62967F03	CP., DTC124K
10	C071	51T93336F01	NJM4558M	11	Q003	48T73888F08	CP., FMG1
0 10	C201	51T85167W01	CXA2502M	11	Q004	48T73888F08	CP., FMG1
• 10	C201	51T85167W01	CXA2502M	H	Q021	48T62967F03	CP., DTC124K
1					1		
	C201	51T85167W01	CXA2502M	H	Q022	48T73888F08	CP., FMG1
	C201	51T11210W01	GXA1102M	H	Q061	48T63420F01	CP., 2SA1037K
10	C221	51T65131W01	TEA6320T	П	Q062	48T62967F03	CP., DTC124K
0 10	C222	51T92001F21	XRA4560F	П	Q071	48T63417F01	CP., 2SC2412K
• K	C222	51T92001F21	XRA4560F	Н	Q072	48T63420F01	CP., 2SA1037K
				!		1	
	C222	51T65379F22	XRA4558FH	11	Q091	48T84234F03	2SB1238
	C222	51T65379F22	XRA4558FH		Q092	48T84234F03	2SB1238
$\sim$	C241	51T75584W01	TC9212F	П	Q093	48T62967F03	CP., DTC124K
1 -1	C241	51T75584W01	TC9212F	П	Q094	48T15289W03	2SD2008
	C242	51T92001F21	XRA4560F	Н	Q095	48T93828F04	2SD1994A
			VE 4 5005	Ш	0004	40704474500	CB IMU1
1 -1	C242	51T92001F21	XRA4560F	С	1	48T94471F03	CP., IMH1
$\sim$ 1	C261	51T75464W01	TDA8576T	11 •	Q201	48T94471F03	CP., IMH1
1 -	C261	51T75464W01	TDA8576T		1	48T94471F03	CP., IMH1
$\sim$	C271	51T75464W01	TDA8576T		Q291	48T73888F08	CP., FMG1
•	C271	51T75464W01	TDA8576T		Q321	48T63788F04	CP., 2SD1328
			TRACETOT	Ш	0004	49769799594	CB 28D1228
	C272	51T75464W01	TDA8576T	•	0000	48T63788F04	CP., 2SD1328
	C272	51T75464W01	TDA8576T		1	48T63788F04	CP., 2SD1328
	C291	51T40941U03	MC14066BFL1	<b>11</b> •	Q322	48T63788F04	CP., 2SD1328
-	C301	51T92001F21	XRA4560F		_	48T63788F04	CP., 2SD1328
•  <sup> </sup>	C301	51T90149F03	M5218AFP	11 •	Q323	48T63788F04	CP., 2SD1328
	C201	E1T65270500	VDA4558EH		0333	48762967523	CP., DTC343TK
	C301	51T65379F22	XRA4558FH	<u> </u>	0004	48T62967F33 48T63788F04	CP., 2SD1328
I - I.	C301	51T65379F22	XRA4558FH	9			CP., 2SD1328
	C321	51T65379F22	XRA4558FH	<b>•</b>	Q324	48T63788F04	2001020
1 L				4 🖳	I		

NOTE:	○: For TDA-7556R Model C	nly

<sup>●:</sup> For TDA-7659R Model Only, △: For TDA-7552R Model Only,

<sup>:</sup> For TDA-7550R Model Only, Others : Common.

Si	mbol	Part No.	Description	Sv	mbol	Part No.		Description
	No.	I all No.	2000.iption		No.			•
		48T68828F11	1SS133		C004	08T15399W01	CP.,	0.022μF
	D881	48T85270W02	MPG06G	1 1	C005	08T15399W03	CP.,	0.047µF
	D882	48T64134F01	CP., DA204K		C006	08T15399W01	CP.,	0.022µF
		48T25766W24	Zener, HZS9C1L	1	C007	08T15807W05	CP.,	0.1μF
	ZD091 ZD092	48T25766W01	Zener, HZS6A1L	1 1	C008	08T15399W01	CP.,	0.022μF
	20092	461237604401	25001, 11250/112					·
	70500	40705766\M02	Zener, HZS9B3L		C009	08T15399W01	CP.,	0.022µF
	ZD502	48T25766W23	Zener, HZS7B1L		C010	08S65128F35	CP.,	100pF
	ZD802	48T25766W13	l · ·	1	C021	08S65128F69	CP.,	0.01µF
	ZD833	48T25766W22	Zener, HZS9B2L		E021	23S75373W06	ELY.	100μF / 16V
	ZD871	48T25766W04	Zener, HZS6B1L		C022	08T55390W29	TF,	0.1μF
	ZD881	48T25766W26	Zener, HZS9C3L	0	0022	001333304423	l''' '	υ. τμι
•						007054000440	- -	0.1µF
$\circ$	ZD882	48T25766W25	Zener, HZS9C2L	•	C022	08T35122W13	PF.,	•
•	ZD882	48T25766W25	Zener, HZS9C2L		C022	08T35122W13	PF.,	0.1μF
Δ	ZD882	48T25766W25	Zener, HZS9C2L		C022	08T35122W13	PF.,	0.1μF
1	DSP001	48T81048F02	Surge Protector, DSP-201M		E022	23S75372W02	ELY.,	100μF / 10V
l	<b>[</b>				C023	08S65128F69	CP.,	0.01μF
						1		A . E . E
1					E023	23S75372W10	ELY.,	0.1μF / 50V
				1	C024	08T15399W02	CP.,	0.033μF
1	Coils				E024	23S75372W04	ELY.,	•
	L071	24T25798W13	Inductor, 1mH	0	C025	08T55390W31	TF,	0.15μF
1	L501	24T75055W06	Choke	•	C025	08T35122W15	PF.,	0.15μ <b>F</b>
ı	L502	24T65110W16	CP., 1µH			Į.		
ı	L503	24T65110W16	CP., 1µH		C025	08T35122W15	PF.,	0.15μF
1					C025	08T35122W15	PF.,	0.15μ <b>F</b>
		1		$\Pi^-$	E025	23S75372W14	ELY.,	0.68μF / 50V
$\vdash$	<u> </u>			Ħ	C026	23S82372F19	ELY.,	(B.P) 2.2μF / 50V
	Cryst	ale			C027	08T15399W02	CP.,	0.033μF
-	X041	91T85169W43	7.2MHz		1			
1	X061	91T45118W18	4.332MHz	Ш	C028	08S65128F69	CP.,	0.01μF
	X501	91T85169W49	8.3886MHz	11	C029	08S65128F69	CP.,	0.01μF
1	X502	91T85169W27	4.9152MHz	H	C030	08T15399W01	CP.,	0.022μF
1	7.002	011001001121			C041	08S82122F31	CP.,	56pF
1				11	E041	23S75372W05	ELY.,	22μF / 16V
<b>-</b>	<u>t</u>	<u> </u>		11				
	Eiltor	/ Duzzor		H	C042	08T15399W01	CP.	0.022μF
		/ Buzzer 1]91775257W01	Filter, LPF11830K	H	C043	08S82122F19	CP.,	18pF
١.		50T25148W02	CB13PA-225		C044	08S82122F19	CP.	18pF
ု	BZ801	50T25148W02	CB13PA-225	0	0054	08S35374W01	CP.,	0.1μF
1.	107004	50T25148W02	CB13PA-225	11 _	C051	08S35374W01	CP.,	0.1µF
	BZ801	30123146WUZ	105 101 A 220	II <b>"</b>			1	•
				11 .	C051	08S35374W01	CP.,	0.1μF
<u>_</u>	Ь	<u> </u>	1		I	23S75372W06	ELY.,	
	<u> </u>	-1			E051	23S75372W06	ELY.,	•
_	Swite	cnes	Slide, SLD-42-508	•	F054	23S75372W06	ELY.	•
	S501	40T45282W01	(Ai-NET • NORM/(EQ/DIV))	<u>^</u>	10000	08S82122F33	CP.,	68pF
		4077540411104	, "		10002	00002122100	"	
1	S821	40T75104W01	Tact,SKHLLB (RESET)	۔ اا	C052	08S82122F33	CP.,	68pF
1				II °	LOSES	08S82122F33	CP.,	68pF
L					·	23S75372W10	ELY.,	•
	_				E052	i	ELY.,	•
L		acitors		{  •	1-0-0	23S75372W10	ELY.,	the state of the s
	C001	08S65128F69	CP., 0.01µF	∐ ^	E052	23S75372W10	- L T .,	ο,τμι∈ε συν
ı	E002	23S75372W05	ELY., 22μF / 16V	11		000750701445	ELV	1 / 501/
	C003	08S65128F35	CP. 100pF		1	23S75372W15	ELY.,	•
1	E003	23S75372W14	ELY., 0.68µF / 50V	<b>11</b> •	E053	23S75372W15	ELY.,	1μF / 50V
L		<u> </u>		┨┖┈				
								A ZEEOD Madal Only

NOTE: O: For TDA-7556R Model Only, Others: Common.

S	ymbol	Part No.	Description			I D. M.		
١	No.	Taitino.	Description	°	iymbol No.	Part No.	1	Description
Δ	E053	23S75372W15	ELY., 1µF / 50V	╟╼	C221	08T35122W07	PF.,	0.033µF
0	E054	23S75372W04	ELY. 10µF / 16V		0004	08T35122W07	PF.,	0.033μF
•	E054	23S75372W04	ELY., 10µF / 16V	^	E221	23S75372W15	ELY.	1μF / 50V
Δ	E054	23S75372W04	ELY., 10μF / 16V	0	C222	08T55390W23	TF,	0.033μF
	C061	08S82122F23	CP, 27pF	~	C222	08T35122W07	PF.,	0.033µF
1				"		100,00,122,10,	1	0.000Ді
	E061	23S75372W04	ELY., 10µF / 16V		C222	08T35122W07	PF.,	0.033μF
	C062	08S82122F23	CP., 27pF		E222	23S75372W15	ELY	1μF / 50V
	E062	23S75372W16	ELY., 2.2μF / 50V		C223	08T55390W14	PF.,	5600pF
	C063	08S82122F49	CP., 330pF		C223	08T55390W14	PF.,	5600pF
1	E063	23S75372W04	ELY., 10μF / 16V		C223	08T55390W14	PF.,	5600pF
1				II <sup>-</sup>			1 '''	
	C064	08S65128F53	CP., 560pF		E223	23S75372W09	ELY.,	4.7μF / 35V
	C071	08S65128F69	CP., 0.01μF	II o	C224	08T55390W14	PF.,	5600pF
1	E071	23S75372W10	ELY., 0.1µF / 50V	~	C224	08T55390W14	PF.	5600pF
	C072	08S65128F56	CP 820pF		C224	08T55390W14	PF.,	5600pF
	C073	08T15399W01	CP., 0.022μF	<b>I</b>	E224	23S75372W09	ELY.,	4.7μF / 35V
	1	1			1		1	
1	C074	08S65128F35	CP., 100pF		C225	08T15399W02	CP.,	0.033μF
I	C075	08S65128F69	CP., 0.01µF		C226	08T15399W02	CP.,	0.033μF
1	C076	08S65128F61	CP., 2200pF		C227	08S65128F66	CP.,	5600pF
	C077	08S65128F69	CP., 0.01μF		E227	23S75372W15	ELY.,	1μF / 50V
	C078	08S65128F81	CP., 0.039μF		0000	08S65128F66	CP.,	5600pF
	C091	08T15399W01	CP., 0.022µF		E228	23S75372W02	ELY.,	100μF / 10V
	E091	23S75372W03	ELY., 220µF / 10V	ı	C229	08S65128F69	CP.	0.01µF
	C092	08T15399W01	CP., 0.022µF		E229	23S75372W15	ELY.	1µF / 50V
1 .	E092	23S75372W04	ELY., 10μF / 16V		E230	23S75372W15	ELY.,	1μF / 50V
0	C201	08T55390W27	TF, 0.068µF		E231	23S75372W15	ELY.	1μF / 50V
	1		]		1		1	
•	C201	08T35122W11	PF., 0.068μF		E232	23S75372W07	ELY.,	47μF / 16V
Δ	C201	08T35122W11	PF., 0.068μF	0	E243	23S75372W15	ELY.	1µF / 50V
	E201	23S75372W15	ELY., 1μF / 50V	•	E243	23S75372W15	ELY.,	1μF / 50V
$\circ$	C202	08T55390W27	TF, 0.068μF	0	E244	23S75372W15	ELY.,	1µF / 50V
•	C202	08T35122W11	PF., 0.068μF		E244	23S75372W15	ELY.	1µF / 50V
				İ				·
1		08T35122W11	PF., 0.068μF	0	E245	23S75372W09	ELY.,	4.7μF / 35V
		23S75372W15	ELY., 1μF / 50V	_		23S75372W09	ELY.,	4.7μF / 35V
		23S75372W04	ELY., 10μF / 16V	0	E246	23S75372W09	ELY.,	4.7μF / 35V
		23S75372W09	ELY., 4.7μF / 35V	•	E246	23S75372W09	ELY.,	4.7μF / 35V
	E205	23S75372W10	ELY., 0.1μF / 50V	0	E247	23S75372W15	ELY.,	1μF / 50V
	500-						İ	
~		23\$75372W10	ELY., 0.1μF / 50V		E247	23S75372W15	ELY.,	1μF / 50V
		23S75372W10	ELY., 0.1μF / 50V	0	E261	23S75372W05	ELY.,	22μF / 16V
		23S75372W14	ELY., 0.68μF / 50V		E261	23S75372W05	ELY.,	22μF / 16V
	. 1	23S75372W10	ELY., 0.1μF / 50V	$\sim$	C262	08S65128F56	CP.,	820pF
•	E206	23S75372W10	ELY., 0.1μF / 50V		C262	08S65128F56	CP.,	820pF
		00075070	504					
		23S75372W10	ELY., 0.1µF / 50V		E262	23S75372W05	ELY.,	22μF / 16V
		23S75372W14	ELY., 0.68µF / 50V			23S75372W05	ELY.,	22μF / 16V
		23S75372W04	ELY., 10μF / 16V		E263	23S75372W08	ELY.,	100μF / 16V
- 1		23S75372W04	ELY., 10μF / 16V			23S75372W08	ELY.,	100μF / 16V
	E207	23S75372W04	ELY., 10μF / 16V	$\circ$	E264	23S75372W08	ELY.,	100μF / 16V
			<u> </u>	<b>1</b>				
			ELY., 22µF / 16V			23S75372W08	ELY.,	100μF / 16V
	C221	08T55390W23	TF, 0.033μF	0	C265	08S65128F56	CP.,	820pF
					j			

NOTE: O: For TDA-7556R Model Only, D: For TDA-7550R Model Only, Others: Common.

					<b>ار</b>		Daniela I		Description
Sy	mbol	Part No.	1	Description		mbo	Part No.		Description
	۱o.					No.	100075070\004	ELY.,	10µF / 16V
•1	C265	08S65128F56	CP.,	820pF	Δ	E321	23S75372W04	1	10μF / 16V
0	E265	23S75372W07	ELY.,	47μF / 16V		E321	23S75372W04	ELY.,	
lol	E265	23S75372W07	ELY.,	47μF / 16V	$\circ$	E322	23S75372W04	ELY.,	10μF / 16V
	E266	23S75372W04	ELY.,	10μF / 16V		E323	23S75372W04	ELY.,	10μF / 16V
	E266	23S75372W04	ELY.,	10μF / 16V	11 •	E323	23S75372W04	ELY.,	10μF / 16V
			İ						
	E271	23S75372W05	ELY.,	22μF / 16V		E324	23S75372W04	ELY.,	10μF / 16V
$\sim$ 1	E271	23S75372W05	ELY.,	22µF / 16V	11 •	E324	23S75372W04	ELY.,	10μF / 16V
1 -	C272	08S65128F56	CP.,	820pF	0	E325	23S75372W04	ELY.,	10μF / 16V
1 ~ 1	C272	08S65128F56	CP.,	820pF	•	E325	23S75372W04	ELY.,	10μF / 16V
1	E272	23S75372W05	ELY.,	22μF / 16V		E325	23S75372W04	ELY.,	10μF / 16V
	22/2	200700727700	[		11 -	Ì			
	E272	23S75372W05	ELY.,	22µF / 16V		E326	23S75372W04	ELY.,	10μF / 16V
1 1		23S75372W08	ELY.,	100μF / 16V		E326	23S75372W04	ELY.,	10μF / 16V
0	E273	1	ELY.,	100μF / 16V		E326		ELY.,	10μF / 16V
•	E273	23S75372W08		100μF / 16V		E327		ELY.,	10µF / 16V
0	E274	23S75372W08	ELY.,	100μF / 16V	11	E328		ELY.,	10μ <b>F</b> / 16V
•	E274	23S75372W08	ELY.,	100μι / 10 ν	11	1		1	•
1			lon	990nE	_ <b>                                    </b>	C36	08T15807W05	CP.,	0.1µF
0	C275	08S65128F56	CP.,	820pF		Coc		CP.	0.1μF
•	C275	08S65128F56	CP.,	820pF		·	1	CP.,	0.1μF
0	E275	23S75372W05	ELY.,	22μF / 16V		1		ELY.,	0.33μF / 50V
•	E275	23S75372W05	ELY.,	22μF / 16V	ା ା		1	1	0.33μF / 50V
0	E276	23S75372W04	ELY.,	10μF / 16V		E36	5 23T75478W35	ELY.,	0.33μ1 / 30 γ
1					- 11		- 0077547014/05	ELV	0.3305 / 507
•	E276	23S75372W04	ELY.,	10μF / 16V		1	1	ELY.,	0.33μF / 50V
0	E277	23S75372W05	ELY.,	22μF / 16V				ELY.,	0.33μF / 50V
١.	E277	23\$75372W05	ELY.,	22μF / 16V	_     <i>-</i>			ELY.,	0.33µF / 50V
	C278	08\$65128F56	CP.,	820pF			1	ELY.,	0.33μF / 50V
Ĭ	C278	08S65128F56	CP.,	820pF		) E36	7 23T75478W35	ELY.,	0.33μF / 50V
	}	ĺ	ĺ		- 11	1		1	//
	E278	23S75372W05	ELY.,	22μF / 16V		∠  E36	1	ELY.,	0.33μF / 50V
Ĭ	E278	23S75372W05	ELY.,	22μF / 16V		] <b> </b> E36	7 23T75478W35	ELY.,	0.33µF / 50V
	E279	23\$75372W08	ELY.,	100μF / 16V		) E36	8 23T75478W35	ELY.,	0.33μF / 50V
ŭ	E279	23S75372W08	ELY.,	100μF / 16V	_     2	<sup>7</sup> E36	8 23T75478W35	ELY.,	0.33μF / 50V
lo	E280	23S75372W08	ELY.,	100μF / 16V		] E36	8 23T75478W35	ELY.,	0.33μF / 50V
	1				- 11	ı			
١.	E280	23S75372W08	ELY.,	100μF / 16V		) E36	9 23T75478W37	ELY.,	1μF / 50V
	0004	08S65128F56	CP.,	820pF		_ E3€	9 23T75478W37	ELY.,	1μF / 50V
	C281	08S65128F56	CP.,	820pF		¬  E36	9 23T75478W37	ELY.,	1μF / 50V
	E281	23S75372W05	ELY.,	22µF / 16V		E37	0 23T75478W18	ELY.,	47μF / 16V
	E281	23S75372W05	ELY.,	22μF / 16V		_ E37	0 23T75478W18	ELY.,	47μF / 16V
1.	1	1-00,00,21100		- <b>-</b>					
	E282	23S75372W04	ELY.,	10μF / 16V	[]	_ E37	0 23T75478W18	ELY.,	47μF / 16V
	E282	23S75372W04		10μF / 16V		E37		ELY.,	1µF / 50V
•	, I	23S75372W04 23S75372W05	1	22μF / 16V	- 11	_ E37		ELY.,	1μF / 50V
	E283	23S75372W05		22μF / 16V		_ E37	1	ELY.,	1μF / 50V
<b>_</b>  •	E283		1	22μF / 16V		C50	1	CP.,	0.01μF
	E284	23S75372W05	EL1.,						•
1	E004	00075070\4/05	EIV	22μF / 16V		E50	1 23S75372W03	ELY.	220μF / 10V
•	E284	23S75372W05	1 .	22μF / 16V 10μF / 16V		C56		CP.,	22pF
	E301	23\$75372W04		•		E50		ELY.,	100μF / 10V
	E302	23\$75372W04	1	10μF / 16V	11	C5		CP.,	22pF
	E303	23S75372W04		10μF / 16V		l		ELY.,	10μF / 16V
	E304	23S75372W04	ELY.,	10μF / 16V	- 11	⊃ <b>E</b> 5	200,00,24404	1	. Op. 7
ł				فاهديش بمر			22 22 22 22 20 14 5	ELY.,	1μF / 50V
	E305	23S75372W04		10μF / 16V		● E5		ELY.,	4.7μF / 35V
	E321	23S75372W04	ELY.,	10μF / 16V		△  E5	03 23S75372W09	L''',	τ./ μι / 00 v
L					니 [				
							odel Only A · F		

NOTE: O: For TDA-7556R Model Only, D: For TDA-7550R Model Only, Others: Common.

	ymbol	Part No.		Description	S	ymbol	Part No.	Description
	No.				<u> </u>	No.		
	E503	23S75372W16	ELY.,	2.2μF / 50V	0	C881	08S65128F69	CP., 0.01μF
i	C504	08T15399W01	CP.,	0.022μF	•	C881	08S65128F69	CP., 0.01μF
	E504	23T00149L27	ELY.,	330μF / 16V	Δ	C881	08S65128F69	CP., 0.01μF
	E505	23T00149L26	ELY.,	220μF / 16V		E881	23S75372W04	ELY., 10μF / 16V
•	E506	23S75373W06	ELY.,	100μF / 16V	ı	İ		
l	C507	08S82122F23	CP.,	27pF	1			1
$\circ$	E507	23T75346W02	ELY.,	4700μF / 16V				
•	E507	23T75346W01	ELY.,	2200μF / 16V		·		(All resistors are chip 1/10W±5%
Δ	E507	23T75346W02	ELY.,	4700μF / 16V		Resis	stors	unless otherwise noted.)
	E507	23T75346W02	ELY.,	4700μF / 16V		R001	06S64995F53	1K ohm
_						R002	06S64995F77	10K ohm
	C508	08S82122F22	CP.,	24pF		R004	06S64995F77	10K ohm
l	E508	23S75372W15	ELY.,	1μF / 50V		R005	06S64995F77	10K ohm
1	C509	08T15399W01	CP.,	0.022μF		R006	06S64995F81	15K ohm
1	E509	23S75372W15	ELY.,	1μF / 50V				
1	E510	23S75372W04	ELY.,	10μF / 16V		R007	06S64995F61	2.2K ohm
1			1			R008	06S64995F53	1K ohm
1	C511	08S65128F35	CP.,	100pF		R009	06S64995F61	2.2K ohm
	E511	23S75372W15	ELY.,	1μF / 50V		R014	06S64995F77	10K ohm
1		l.	1	•		1		
1	C513	08S65128F35	CP.,	100pF	I	R021	06S64995F53	1K ohm
	C514	08S65128F35	CP.,	100pF			1	
	C515	08S65128F35	CP.,	100pF		R022	06S64995F53	1K ohm
		<u> </u>				R023	06S64995F61	2.2K ohm
1	C517	08S65128F35	CP.,	100pF		R024	06S64995F61	2.2K ohm
1	C521	08S65128F35	CP.,	100pF		R025	06S64995F29	100 ohm
l	C522	08S65128F35	CP.,	100pF		R026	06S64995F83	18K ohm
0	C523	08S65128F69	CP.,	0.01μF			1	
•	C523	08S65128F69	CP.,	0.01μF		R027	06S64995F85	22K ohm
						R028	06S64995F53	1K ohm
	C526	08T15399W01	CP.	0.022μF		R029	06S64995F71	5.6K ohm
	C527	08T15399W01	CP.,	0.022μF	ı	R030	06S70072F29	100 ohm 1/4W
0	C529	08S65128F35	CP.,	100pF		R031	06S64995F77	10K ohm
Δ	C529	08S65128F35	CP.,	100pF				
	C529	08S65128F35	CP.,	100pF		R032	06S64995F61	2.2K ohm
_		j				R033	06S64995F53	1K ohm
1	C530	08S65128F69	CP.,	0.01µF	ı	R034	06S64995F53	1K ohm
1	C532	08S65128F35	CP.	100pF		R041	06S64995F53	1K ohm
1	C801	08S65128F35	CP.,	100pF		R042	06S64995F93	47K ohm
1	E821	23S75372W04	ELY.	10μF / 16V	1	1		
1	C831	08S53332F23	CP.,	100pF	1	R043	06S64995F53	1K ohm
1	[		],	•		R044	06S64995F93	47K ohm
1	C832	08T15807W05	CP.,	0.1μF	_	R051	06S64995F89	33K ohm
_	E832	23S75372W04	ELY.,	10μF / 16V	0	R051	06S64995F89	33K ohm
	E832	23S75372W04	ELY.,	10μF / 16V	1 •	1		
<u></u>	E832	23S75372W04	ELY.,	10μF / 16V	Δ	R051	06S64995F89	33K ohm
	1	1	1	,	I	BOEO	00004005500	2014 - 1
1	E841	23S75372W02	ELY.,	100μF / 10V	0	R052	06S64995F89	33K ohm
1		0007507011105	F	47.5 (05)(	1 •	R052	06S64995F89	33K ohm
ĺ	E843	23S75372W09	ELY.,	4.7μF / 35V	Δ	R052	06S64995F89	33K ohm
1	C851	08S82122F37	CP.,	100pF	0	R053	06S64996F26	1M ohm
1	E851	23S75372W04	ELY.,	10μF / 16V	•	R053	06S64996F26	1M ohm
1	C852	08S82122F23	CP.,	27pF	1	1		
1	C871	08S65128F69	CP.,	0.01μF	Δ	R053	06S64996F26	1M ohm
1		1	1		0	R054	06S64996F01	91K ohm
I	E871	23S75372W15	ELY.,	1μF / 50V		R054	06S64996F01	91K ohm
	E872	23S75372W10	ELY.,	0.1μF / 50V	Δ	R054	06S64996F01	91K ohm
1		1			1			
			<u> </u>					<del></del>

Sy	mbol	Part No.	Description		mbol	Part No.	Description
	No.			_	No.	00004000500	100V obm
	R061	06S64995F61	2.2K ohm		R243	06S64996F02	100K ohm
	R062	06S64995F69	4.7K ohm	0	R244	06S64996F02	100K ohm
1	R063	06\$64995F77	10K ohm	•	R244	06S64996F02	100K ohm
1 1	R064	06S64995F53	1K ohm	0	R247	06S64995F65	3.3K ohm
	R065	06S64995F53	1K ohm	•	R247	06S64995F65	3.3K ohm
				1	1		
1	R071	06S64996F02	100K ohm	0	R248	06S64995F65	3.3K ohm
	R072	06S64995F77	10K ohm	•	R248	06S64995F65	3.3K ohm
1 1	R073	06S64995F81	15K ohm	0	R261	06S64995F90	36K ohm
	R074	06S64996F10	220K ohm	•	R261	06S64995F90	36K ohm
1 1	R075	06S64996F14	330K ohm		R262	06S64995F90	36K ohm
1 1			·	l			
1 1	R076	06S64995F29	100 ohm	•	R262	06S64995F90	36K ohm
	R077	06S64995F77	10K ohm	0	R263	06S64995F90	36K ohm
	R078	06S64996F04	120K ohm	•	R263	06S64995F90	36K ohm
	R079	06S64995F13	22 ohm	0	R264	06S64995F90	36K ohm
	R080	06S64996F02	100K ohm	•	R264	06S64995F90	36K ohm
				l			
	R081	06S64996F02	100K ohm	0	R271	06S64995F90	36K ohm
1	R091	06S64995F65	3.3K ohm	<b>│</b> ●	R271	06S64995F90	36K ohm
	R092	06S64995F53	1K ohm	0	R272	06S64995F90	36K ohm
1	R093	06S70072F61	2.2K ohm 1/4W	<b>│</b> ●	R272	06S64995F90	36K ohm
	R094	06S64995F77	10K ohm		R273	06S64995F90	36K ohm
							001/
	R095	06S70072F41	330 ohm 1/4W	•	R273	06S64995F90	36K ohm
	R096	06S53330F73	6.8K ohm 1/8W	0	R274	06S64995F90	36K ohm
	R201	06S64996F30	2.2M ohm	•	R274	06S64995F90	36K ohm
	R202	06S64996F30	2.2M ohm	С	R276	06S64995F90	36K ohm
	R203	06S64995F62	2.4K ohm	•	R276	06S64995F90	36K ohm
1			0.414	Ш.	0077	06S64995F90	36K ohm
1	R204	06S64995F62	2.4K ohm	C	R277	06S64995F90	36K ohm
	R205	06S64995F59	1.8K ohm	•	R277	06S64995F90	36K ohm
1	R206	06S64995F59	1.8K ohm	C	R278	06S64995F90	36K ohm
ं	R207	06S64995F84	20K ohm		10070	06S64995F90	36K ohm
•	R207	06S64995F84	20K ohm		102/3	003049337 30	Solv Olim
	R207	06S64995F84	20K ohm	۱۱ ـ	R279	06S64995F90	36K ohm
<u> </u>	R207	06S64995F92	43K ohm	Ш	R291	06S64995F61	2.2K ohm
	l	06S64995F79	12K ohm		R292	06S64995F61	2.2K ohm
ं	H208 H208	06S64995F79	12K ohm	H	R301	06T15443W85	22K ohm
•	R208	06S64995F79	12K ohm	H	R302	06T15443W85	22K ohm
	11200	10000110001110	1	П			
ि	R209	06S64995F37	220 ohm	Ш	R303	06T15443W85	22K ohm
	R209	06S64995F37	220 ohm	H	R304	06T15443W85	22K ohm
	R209	06S64995F37	220 ohm	П	R305	06T15443W79	12K ohm
0	R210	06S64995F75	8.2K ohm	H	R306	06T15443W79	12K ohm
Ĭ	R210	06S64995F75	8.2K ohm	Ш	R307	06T15443W79	12K ohm
Δ	R210	06S64995F75	8.2K ohm		R308	06T15443W79	12K ohm
	R211	06S64995F69	4.7K ohm		R321	06S64995F77	10K ohm
	R221	06S64995F77	10K ohm		R322	06S64995F77	10K ohm
	R222	06S64995F77	10K ohm			06S64995F77	10K ohm
	R223	06S64995F77	10K ohm		R324	06S64995F77	10K ohm
J							
1	R224	06S64995F77	10K ohm			06S64995F77	10K ohm
0	R243	06S64996F02	100K ohm		R326	06S64995F77	10K ohm
				I L			

NOTE: O: For TDA-7556R Model Only, D: For TDA-7550R Model Only, Others: Common.

Sı	mbol	Part No.	Description	S	ymbol	Part No.	Description	
	No.			ľ	No.		2000.151011	
	R327	06S64995F77	10K ohm	-	R347	06S64995F65	3.3K ohm	
0	R328	06S64995F77	10K ohm		R348	06S64995F65	3.3K ohm	
0	R329	06S64995F37	220 ohm		R348	06S64995F65	3.3K ohm	
Ğ		06S64995F37	220 ohm		R349	06S64995F29	100 ohm	
0	R330	06S64995F37	220 ohm		R350	06S64995F29	100 ohm	
Ŭ								
۱.	R330	06S64995F37	220 ohm		R351	06S64995F85	22K ohm	
0	R331	06S64995F65	3.3K ohm	Ĭ	R351	06S64995F89	33K ohm	
ě	R331	06S64995F71	5.6K ohm		R351	06S64995F85	22K ohm	
0	R332	06S64995F65	3.3K ohm		R351	06S64995F85	22K ohm	
ě	R332	06S64995F71	5.6K ohm	0	R352	06S64995F85	22K ohm	
					]			
0	R333	06S64995F29	100 ohm	۱.	R352	06S64995F89	33K ohm	
•	R333	06S64995F29	100 ohm	Δ	R352	06S64995F85	22K ohm	
0	R334	06S64995F29	100 ohm		R352	06S64995F85	22K ohm	
•	R334	06S64995F29	100 ohm	_ _	R353	06S64995F53	1K ohm	
0	R335	06S64995F85	22K ohm	Δ	R354	06S64995F53	1K ohm	
	1							
•	R335	06S64995F89	33K ohm	Δ	R355	06S64995F53	1K ohm	
0	R336	06S64995F85	22K ohm		R355	06S64995F61	2.2K ohm	
•	R336	06S64995F89	33K ohm	Δ	R356	06S64995F53	1K ohm	
0	R337	06S64995F37	220 ohm		R356	06S64995F61	2.2K ohm	
•	R337	06S64995F37	220 ohm	0	R373	06S64995F77	10K ohm	
				1				
Δ.	R337	06S64995F37	220 ohm	Δ	R373	06S64995F77	10K ohm	
0	R338	06S64995F37	220 ohm		R373	06S64995F77	10K ohm	
•	R338	06S64995F37	220 ohm		R501	06S64995F85	22K ohm	
Δ	R338	06S64995F37	220 ohm	•	R502	06S64995F77	10K ohm	
0	R339	06S64995F65	3.3K ohm		R503	06S64995F53	1K ohm	
	D000	00004005574	5 OV -1	1				
•	R339	06S64995F71	5.6K ohm	1	R504	06S64995F53	1K ohm	
0	R340 R340	06S64995F65 06S64995F71	3.3K ohm 5.6K ohm	1	R505	06S64995F53	1K ohm	
•	R341	06S64995F29	100 ohm	1	R506 R507	06S64995F53	1K ohm	
	R341	06S64995F29	100 ohm	1	R508	06S64995F53	1K ohm	
•	1.04.	000040001 20	100 0/11/1	1	17.500	06S64995F53	1K ohm	
Δ	R341	06S64995F29	100 ohm	1	R509	06S64995F53	1K ohm	
0	R342	06S64995F29	100 ohm	1	R510	06S64995F53	1K ohm	
	l	06S64995F29	100 ohm		R511	06S64995F77	10K ohm	
	I	06S64995F29	100 ohm		R512	06S64995F61	2.2K ohm	
	1	06S64995F85	22K ohm		R513	06S64995F53	1K ohm	
ا ا				1		]		
•	R343	06S64995F89	33K ohm	I	R514	06S64995F85	22K ohm	
Δ	R343	06S64995F85	22K ohm		R515	06S64995F61	2.2K ohm	
0	R344	06S64995F85	22K ohm		R516	06S64995F61	2.2K ohm	
•	R344	06S64995F89	33K ohm		R517	06S64995F85	22K ohm	
Δ	R344	06S64995F85	22K ohm		R518	06S64995F85	22K ohm	
0	i	06S64995F37	220 ohm		R519	06S64995F53	1K ohm	
•	1 1	06S64995F37	220 ohm		R520	06S64995F53	1K ohm	
Δ	i 1	06S64995F37	220 ohm		R521	06S64995F93	47K ohm	
0	R346	06S64995F37	220 ohm	0	R523	06S64995F78	11K ohm	
•	R346	06S64995F37	220 ohm	•	R523	06S64995F77	10K ohm	
			<b>I</b>					
		06S64995F37	220 ohm	_	R523	06S64995F85	22K ohm	
0	R347	06S64995F65	3.3K ohm		R523	06S64995F88	30K ohm	
					<u></u>			

NOTE: O: For TDA-7556R Model Only, D: For TDA-7550R Model Only, Others: Common.

Ç.,	mbol I	Part No.	Description	S	yπ	lode	Part No.	Description
	nbol lo.	Fall NO.	5 5 5 5 Files	11_	N	o		
		06S64995F87	27K ohm	11	1	- 1	06S64995F53	1K ohm
$\sim$ 1		06S64995F81	15K ohm				06S64995F53	1K ohm
	R524	06S64995F69	4.7K ohm	11	1		06S64995F53	1K ohm
1	R525	06S64995F85	22K ohm	11	1		06S64995F53	1K ohm
1	R526	06S64995F85	22K ohm	11	P	1581	06S64995F94	51K ohm
1				11	1		06S64995F94	51K ohm
1 1	R528	06S64995F93	47K ohm	11	ı	1582 1583	06S64995F53	1K ohm
1 1	R530	06S64995F53	1K ohm	Н		1584	06S64995F53	1K ohm
1 1	R532	06S64995F93	47K ohm	Ш		1585	06S64995F53	1K ohm
1 1	R533	06S64995F93	47K ohm	Ш		1565 1587	06S64996F02	100K ohm
	R534	06S64995F93	47K ohm	Ш	ĺ.	1007		
	2505	00001000500	100K ohm		Į,	R588	06S64995F53	1K ohm
1	R535	06S64996F02 06S64996F10	220K ohm	11		R589	06S64995F53	1K ohm
1	R538	06S64995F53	1K ohm	11	Į	<b>3590</b>	06S64995F53	1K ohm
1	R539 R540	06S64995F93	47K ohm		ŀ	R591	06S64995F53	1K ohm
1	R541	06S64995F53	1K ohm	11	ŀ	R592	06S64995F53	1K ohm
	1,104,			Ш				
1	R543	06S64995F93	47K ohm			R593	06S64995F53	1K ohm
1	R544	06S64995F93	47K ohm	Ш	١	R594	06S64995F53	1K ohm
1	R545	06S64995F93	47K ohm	- 11	ŀ	R595	06S64995F77	10K ohm
	R546	06S64995F53	1K ohm		- 1	R596	06S64995F85	22K ohm
	R547	06S64995F53	1K ohm	-11 •	▶	R596	06S64995F85	22K ohm
	ļ			Ш	١		00001005505	22K ohm
1	R548	06S64995F53	1K ohm		~ 1	R597	06S64995F85 06S64995F85	22K ohm
1	R550	06S64995F79	12K ohm	-11 9	٦ ۱	R597	06S64995F67	3.9K ohm
0	R551	06S64995F53	1K ohm		~ 1	R598 R598	06S64995F67	3.9K ohm
•	R551	06S64995F53	1K ohm	- 11 '	٦	R599	06S64995F67	3.9K ohm
ା	R552	06S64995F93	47K ohm	- 11 '		11000		
	0550	06S64995F93	47K ohm	- 11 .		R599	06S64995F67	3.9K ohm
•	R552	06S64995F77	10K ohm			R600	06S64995F61	2.2K ohm
	lneen.	06S64995F77	10K ohm	- [1]		R802	06S64995F89	33K ohm
	R556	06S70072F77	10K ohm 1/4W			R803	06S64995F89	33K ohm
ł	R557	06S70072F59	1.8K ohm 1/4W	- 11		R804	06S64995F93	47K ohm
		1		- 11				
	R558	06S70072F59	1.8K ohm 1/4W	Ш		R805	06S64995F93	47K ohm
	R559	06S70072F59	1.8K ohm 1/4W	- 11		R806	06S64995F93	47K ohm
	R560	06S70072F59	1.8K ohm 1/4W			R807	06S64995F93	47K ohm 47K ohm
1	R561	06S64996F02	100K ohm		_	R808	06S64995F93 06S64995F77	10K ohm
1	R562	06S70072F53	1K ohm 1/4W		0	R811	00304993177	Tork simi
	<u> </u>		270 ohm 1/4W	- 11	_	R811	06S64995F77	10K ohm
1	R564	06S70072F39	270 ohm 1/4W		`	R811	06S64995F77	10K ohm
	R565	06S70072F39 06S64995F93	47K ohm	H	0	R812	06S64995F53	1K ohm
L.	R566 R567	06S64995F77	10K ohm	- 11	•	R812	06S64995F53	1K ohm
	R567	06S64995F77	10K ohm	Ш	_	R812	06S64995F53	1K ohm
'	•   1.007			- []			· ·	
١,	R568	06S53330F77	10K ohm 1/8W	- 11	0	R813	06S64995F53	1K ohm
	R569	06S70072F61	2.2K ohm 1/4W		•	R813	06S64995F53	1K ohm
	R570	06S64996F02	100K ohm		Δ	1	06S64995F53	1K ohm
	_ R573	06S64995F37	220 ohm	11		R821	06S64995F85	22K ohm
	☐ R574	06S64995F37	220 ohm	- 11		R822	06S64995F69	4.7K ohm
						R823	06S64995F61	2.2K ohm
	R575	06S64995F53	1K ohm	- 11		R831	06S64995F77	10K ohm
	R576	06S64995F53	1K ohm					
- 1		1		L		.1		

NOTE: O: For TDA-7556R Model Only, D: For TDA-7659R Model Only, Others: Common.

●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,

	ymbol	Part No.	Description	S	ymbol	Part No.	Description
	No.	0007007055		11	No.		
1	R834	06S70072F53	1K ohm 1/4W	H	1	18T15356W13	Variable, 10K ohm
1	R835	06S70072F77	10K ohm 1/4W	H	VR202	18T15356W13	Variable, 10K ohm
$\circ$	R837	06S64995F77	10K ohm	H	1		
Δ	R837	06S64995F77	10K ohm	H	l		
	R837	06S64995F77	10K ohm	H	1	}	
1			- mix 1				
$\circ$	R838	06S64995F81	15K ohm	╙		<u> </u>	
Δ	R838	06S64995F81	15K ohm	H	_		
	R838	06S64995F81	15K ohm	Ι∟	Fron	t P.C.Board	
	R839	06S64995F37	220 ohm	H			
$\triangle$	R839	06S64995F37	220 ohm	Ⅱ	IC's	In	
·	D000	00004005507	000 above	Ш	IC401	51T85152W01	LC75883W
	R839	06S64995F37	220 ohm	Ш	IC402	51T55639W01	RS-31
1	R851	06S64995F73	6.8K ohm	ll l			
1	R852	06S64995F77	10K ohm	<b> </b>	<u></u>	<u> </u>	
	R853	06S64995F77	10K ohm	<b>!</b>	_		
	R854	06S64995F69	4.7K ohm	<b>   </b>	10.40	sistors	
1	Doe-	06064005570	C 21/ - h-m	ା		48T73888F12	CP., FMC2
1	R855	06S64995F73	6.8K ohm	•	Q401	48T73888F12	CP., FMC2
	R856	06S64995F77	10K ohm	Δ	Q401	48T73888F12	CP., FMC2
1	R857	06S64995F77	10K ohm	0	1	48T63788F04	CP., 2SD1328
1	R858	06S70072F19	39 ohm 1/4W	•	Q402	48T63788F04	CP., 2SD1328
1	R859	06S70072F19	39 ohm 1/4W	ll l			
l				Δ	Q402	48T63788F04	CP., 2SD1328
l	R860	06S70072F19	39 ohm 1/4W		Q403	48T63788F04	CP., 2SD1328
ı	R861	06S70072F19	39 ohm 1/4W	•	Q403	48T63788F04	CP., 2SD1328
1	R862	06S64995F61	2.2K ohm		Q403	48T63788F04	CP., 2SD1328
1	R863	06S64995F57	1.5K ohm		Q404	48T63788F04	CP., 2SD1328
1	R864	06S64995F57	1.5K ohm	H			
1				Ⅱ•	Q404	48T63788F04	CP., 2SD1328
ı	R865	06S64995F61	2.2K ohm		Q404	48T63788F04	CP., 2SD1328
1	R866	06S64995F55	1.2K ohm		Q405	48T63788F04	CP., 2SD1328
1	R867	06S70072F05	10 ohm 1/4W	Ⅱ •	Q405	48T63788F04	CP., 2SD1328
	R871	06S70072F67	3.9K ohm 1/4W		Q405	48T63788F04	CP., 2SD1328
1	R872	06S53330F69	4.7K ohm 1/8W		l		
					Q406	48T63788F04	CP., 2SD1328
	R873	06S53330F69	4.7K ohm 1/8W		Q406	48T63788F04	CP., 2SD1328
1	R881	06S53330F77	10K ohm 1/8W	Δ	Q406	48T63788F04	CP., 2SD1328
1	R883	06S70072F59	1.8K ohm 1/4W	ll o	Q407	48T63788F04	CP., 2SD1328
	R884	06S64995F77	10K ohm	•	Q407	48T63788F04	CP., 2SD1328
	R888	06S70072F89	9.1 ohm 1/4W		1		
				Δ	Q407	48T63788F04	CP., 2SD1328
	R889	06S70072F89	9.1 ohm 1/4W	_	Q408	48T62967F03	CP., DTC124K
	R890	06S70072F89	9.1 ohm 1/4W		Q409	48T62967F03	CP., DTC124K
	R891	06S64995F77	10K ohm				
	R892	06S64995F77	10K ohm		1	1	1
	l I	06S70072F61	2.2K ohm 1/4W			l	
				<b> </b>	L	<u> </u>	
	R894	06S64995F77	10K ohm		Diode	S	
	R895	06S70072F45	470 ohm 1/4W			48T64134F01	CP., DA204K
0	R896	06S64995F55	1.2K ohm		D402	48T64134F01	CP., DA204K
	R896	06S64995F55	1.2K ohm		D403	48T64134F01	CP., DA204K
		06S64995F55	1.2K ohm	1	D404	48T64134F01	CP., DA204K
[		1		1		48T64134F01	CP., DA204K
	R897	06S70072F89	9.1 ohm 1/4W		"		St. ij Brikotit
		06S70072F59	1.8K ohm 1/4W	ı	D406	48T81063F01	CP., MA159
					ا ت	1.5.5.5556.01	J, W
				<u> </u>	L		

NOTE: O: For TDA-7556R Model Only, D: For TDA-7550R Model Only, Others: Common.

Cumb	ol Part No.	Description	S	mbol	Part No.	Description
Symb No.	oi Faitino.	)	1	No.		
D40	7 48T81063F01	CP., MA159		S411	40T55656W03	Tact, CP. SKQMAJ (RDS/1/DOLBY)
D40	l	CP., DAN202K	ı	S412	40T55656W03	Tact, CP. SKQMAJ (PTY/2/P.S. DN)
O D40	· I	CP., DA204K		S413	40T55656W03	Tact, CP. SKQMAJ (P.PTY/3/P.S. UP)
D40		CP., DA204K		S414	40T55656W03	Tact, CP. SKQMAJ (M.I.X./4/B.SKIP)
D40	1	CP., DA204K	H	S415	40T55656W03	Tact, CP. SKQMAJ (RPT/5)
	101011011		П		'	
ZD4	401 48T84735F07	Zener, MA3056	H	S416	40T55656W03	Tact, CP. SKQMAJ (SCAN/6)
	101011000		11	S417	40T55656W03	Tact, CP. SKQMAJ (F/DEMO)
			<b>! ]</b>			1
<b>l</b> [	l l		H		ļ	
┞╌┴╌			11			
LE	ED's				<u> </u>	
	401 48T65477W05	CP., SLM-010DTT87 (ORG)				
ا ا	402 48T65477W05	CP., SLM-010DTT87 (ORG)	11_	Lamp		IOD OVICE A
	402 48T65477W05	CP., SLM-010DTT87 (ORG)	0	PL401	65T75522W02	CP., 9V-85mA
△ LD	402 48T65477W05	CP., SLM-010DTT87 (ORG)	<b>   •</b>	PL401	65T75522W02	CP., 9V-85mA
1 -1	403 48T65477W05	CP., SLM-010DTT87 (ORG)		PL401	65T75522W02	CP., 9V-85mA
Ĭ			0		65T75522W02	CP., 9V-85mA
LD	403 48T65477W05	CP., SLM-010DTT87 (ORG)	11 •	PL402	65T75522W02	CP., 9V-85mA
	403 48T65477W05	CP., SLM-010DTT87 (ORG)	11	1		
1	404 48T65477W02	CP., SLM-010LTT87 (RED)	_ ∠		65T75522W02	CP., 9V-85mA
8 I	405 48T65477W02	CP., SLM-010LTT87 (RED)		PL403	65T75231W06	9V-85mA
ا ا	i i	CP., SLM-010DTT87 (ORG)	11 •	PL403	65T75231W06	9V-85mA
			∠		65T75231W06	9V-85mA
	406 48T65477W05	CP., SLM-010DTT87 (ORG)		] PL403	65T75231W01	9V-85mA
1 -	406 48T65477W05	CP., SLM-010DTT87 (ORG)	Ш		İ	
1 -1	0407 48T65477W05	CP., SLM-010DTT87 (ORG)		PL404	65T75231W06	9V-85mA
$\sim$	0407 48T65477W05	CP., SLM-010DTT87 (ORG)	11 0	PL404	65T75231W06	9V-85mA
<b>T</b>	48T65477W05	CP., SLM-010DTT87 (ORG)		∠ PL404	65T75231W06	9V-85mA
				] PL404	65T75231W01	9V-85mA
1 _ hr	48T65477W05	CP., SLM-010DTT87 (ORG)	11	PL411	65T75233W01	CP., 6V-80mA
$\cup$	0408 48T65477W05	CP., SLM-010DTT87 (ORG)	11	j		ì
- I - I.,	0408 48T65477W05	CP., SLM-010DTT87 (ORG)	н	PL412	65T75233W01	CP., 6V-80mA
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			D PL413	65T75233W02	CP., 6V-80mA
1			Ш	PL413	65T75233W02	CP., 6V-80mA
1 1			11.	DL413	65T75233W02	CP., 6V-80mA
			Ш	DL414	65T75233W02	CP., 6V-80mA
$H^{\perp}$			71			
	Switches		11.	<b>-</b> 1	65T75233W02	CP., 6V-80mA
	401 40T55656W03	Tact, CP. SKQMAJ (INTLZ/PWR)		△ PL414		CP., 6V-80mA
1 1	403 40T75234W01	Tact, CP. SKONAC (SOURCE/A.S.U	)   ,	O PL415	65T75231W02	9V-85mA
1 1	404 40T75234W01	Tact, CP. SKQNAC (EJECT)		● PL415	65T75231W02	9V-85mA
	405 40T55656W03	Tact, CP. SKQMAJ (REW/DN)	11	△ PL415	65T75231W02	9V-85mA
	406 40T55656W03	Tact, CP. SKQMAJ (FF/UP)	11			
				PL417	65T75232W01	CP., 6V-80mA
9	407 40T75234W01	Tact, CP. SKQNAC (TUNE/A.MEMO)		PL418	65T75233W01	CP., 6V-80mA
1 1	408 40T55656W03		Ш	PL419	65T75233W01	CP., 6V-80mA
1 1	409 40T75234W01			1		
1 1	410 40T75234W01		11			
0 8						
	70100007700	(RDS/1/DOLBY • B/C)	11			
		,		Cap	acitors	·
	6411 40T55656W03	Tact, CP. SKQMAJ	11	C401		CP., 820pF
		(RDS/1/DOLBY • B/C)		E401	23T25191W39	CP. ELY., 6.8µF/6.3V
	6411 40T55656W03	1	- 11	C402	08T15399W03	CP., 0.047μF
		(RDS/1/DOLBY • B/C)	H			
			ļl			1
						E TDA 7550D Madel Only

NOTE: O: For TDA-7556R Model Only, Others: Common.

•: For TDA-7552R Model Only, Others: Common.

	/mbol	Part No.	Description	٦٢	•	mbol	Part No.	Description
-	No.		(All resistors are chip 1/4W±5%		_	No. R456	06S70072F43	390 ohm
	Resis	tore	unless otherwise noted.)	-11	- 1	R457	06S70072F41	330 ohm
	R402	106S64995F77	10K ohm 1/10W	<b>-11</b>	${}^{\smile}$ I	R457	06S70072F41	330 ohm
	R403	06S64995F77	10K ohm 1/10W	- 11	_	R457	06S70072F41	330 ohm
	R404	06S64995F69	4.7K ohm 1/10W	- 11	- 1	R458	06S70072F39	270 ohm
	R405	06S64995F77	10K ohm 1/10W	- 11	$^{\scriptscriptstyle I}$			
	R406	06S64995F53	1K ohm 1/10W	Ш.	ا۔	R458	06S70072F39	270 ohm
				- 11	- I	R458	06S70072F39	270 ohm
	R407	06S64995F53	1K ohm 1/10W	- 11	- 1	R459	06S70072F13	22 ohm
	R410	06S64995F53	1K ohm 1/10W	Н	1	R460	06S70072F13	22 ohm
	R411	06S64995F53	1K ohm 1/10W	- 11.	- 1	R461	06\$70072F13	22 ohm
	R412	06S64995F53	1K ohm 1/10W	Ш	$^{\smile}$			
	R413	06S64995F53	1K ohm 1/10W	Ш	_	R461	06S70072F13	22 ohm
				Ш	~	R461	06S70072F13	22 ohm
i i	R414	06S64995F53	1K ohm 1/10W	11		R462	06S70072F15	27 ohm
	R415	06S64995F69	4.7K ohm 1/10W		~	R462	06S70072F15	27 ohm
	R416	06S64995F97	68K ohm 1/10W		- 1	R462	06S70072F15	27 ohm
0	R422	06S64995F61	2.2K ohm 1/10W		_			
Ĭ	R422	06S64995F61	2.2K ohm 1/10W			R463	06S70072F16	30 ohm
ľ		l		Ш		R463	06S70072F16	30 ohm
Δ	R422	06S64995F61	2.2K ohm 1/10W		۵	R463	06S70072F16	30 ohm
0	R423	06S64995F61	2.2K ohm 1/10W	- 11	- 1	R464	06S70072F16	30 ohm
Ĭ	R423	06S64995F61	2.2K ohm 1/10W	П	- 1	R464	06S70072F16	30 ohm
	R423	06S64995F61	2.2K ohm 1/10W	Ш	-		1	
	R424	06S64995F61	2.2K ohm 1/10W	11.	△	R464	06S70072F16	30 ohm
				Ш		R465	06S70072F16	30 ohm
	R424	06S64995F61	2.2K ohm 1/10W	Ш		R466	06S70072F16	30 ohm
Δ	R424	06S64995F61	2.2K ohm 1/10W	Ш		R467	06S70072F15	27 ohm
0	R425	06S64995F61	2.2K ohm 1/10W	Ш		R468	06S70072F15	27 ohm
•	R425	06S64995F61	2.2K ohm 1/10W	Ш				
Δ	R425	06S64995F61	2.2K ohm 1/10W	Н		R469	06S70072F14	24 ohm
						R470	06S70072F14	24 ohm
0	R426	06S64995F61	2.2K ohm 1/10W			R471	06S70072F13	22 ohm
•	R426	06S64995F61	2.2K ohm 1/10W	Ш		R472	06S70072F41	330 ohm
Δ	R426	06S64995F61	2.2K ohm 1/10W	Ш		R473	06S70072F67	3.9K ohm
0	R427	06S64995F61	2.2K ohm 1/10W	Ш			İ	
•	R427	06S64995F61	2.2K ohm 1/10W	11	$\sim$ 1	R474	06S70072F37	220 ohm
ļ				- 11	~ 1	R474	06S70072F37	220 ohm
Δ	R427	06S64995F61	2.2K ohm 1/10W	]].	- 1	R474	06S70072F37	220 ohm
0	R428	06S64995F93	47K ohm 1/10W			R475	06S70072F39	270 ohm
•	R428	06S64995F93	47K ohm 1/10W		•	R475	06S70072F39	270 ohm
Δ	R428	06S64995F93	47K ohm 1/10W		١	D.4.7.5	000700707	070
	R429	06S64995F53	1K ohm 1/10W			R475	06S70072F39	270 ohm
	l <sub>B400</sub>	06564005555	1K ohm 1/10M			R476	06S70072F16	30 ohm
1 -	R430	06S64995F53	1K ohm 1/10W		٦	R476	06S70072F16	30 ohm
0	R451	06S70072F09 06S70072F09	15 ohm 15 ohm	- 11	_ 1	R476	06S70072F16	30 ohm
•	R451	06S70072F09 06S70072F09	15 ohm		이	R477	06S70072F16	30 ohm
	R451 R452	06S70072F09 06S70072F09	15 ohm			R477	06S70072F16	30 ohm
	1,1702	03070072F03	1		٦	R477	06S70072F16	30 ohm
_	R452	06S70072F09	15 ohm	- 1 1	-1	R478	06S70072F16	33 ohm
1	R452	06S70072F09	15 ohm		$\sim$ 1	R478	06S70072F17	33 ohm
_	R453	06S70072F09	15 ohm	_    '	٦,	R478	06S70072F17	33 ohm
	R454	06S70072F09	15 ohm	1	$^{\scriptscriptstyle \triangle}$	, , 0	155.55,211,	55 5/iiii
	R455	06S70072F41	330 ohm			R479	06S70072F39	270 ohm
					- 1	R481	06S64995F46	510 ohm 1/10W
					-	•		2.3 9 171011
L	<u> </u>		I <del> </del>	<b></b>			<u> </u>	<u> </u>

NOTE: O: For TDA-7556R Model Only, Others: Common.

Ç,	/mbol	Part No.	Description	Symbol	Part No.	Description
	No.	i aitivo.	Dosonption	No.		2000p.10
	R482	06S64995F53	1K ohm 1/10W	R3510	06S70072F60	2K ohm 1/4W
	R482	06S64995F53	1K ohm 1/10W	R3511	06S70072F60	2K ohm 1/4W
Δ	R482	06S64995F53	1K ohm 1/10W		06S53331F01	91K ohm 1/8W
I <sup>^^</sup>					06S53331F01	91K ohm 1/8W
	1			R3514	06S70072F53	1K ohm 1/4W
			]			
ŀ				R3515	06S81094F05	M.F., 3.3 ohm 1/2W
-	<u> </u>	<u> </u>				
1	GP C	ontrol P.C.Bo	ard (A)			
$\vdash$	Gh C	UNITOLE .C.DO	ald ( )			
	IC's				1	
		51T75010W01	BA3703F	GRC	ontrol P.C.Bo	ard ( ○ △ □ )
	IC3501	51T75628W01	BA6285FP			
	1	ł		IC's		
1			<b> </b>		51T64606F02	TA7705F
				IC1102	51T75010W01	BA3703F
L	Trans	istors		IC1501	51T75628W01	BA6285FP
	Q3501	48T84366F05	2SB1243			
	Q3502	48T62967F06	CP., DTC114YK			
1	Q3503	48T62967F06	CP., DTC114YK			
	Q3504	48T83835F03	2SD1859	Trans		
	Q3505	48T62967F06	CP., DTC114YK		48T84366F05	2SB1243
	1				48T62967F06	CP., DTC114YK
L	<u></u>			1	48T62967F06	CP., DTC114YK
				Q1504	48T83835F03	2SD1859
	Diode					
	1	48T81063F01	CP., MA159		<u> </u>	
	1	48T81063F01	CP., MA159			
	ZD3501	48T83128F11	Zener, HZS7A2L	Diode		
					48T81063F01	CP., MA159
	<u> </u>				48T81063F01	CP., MA159
					48T81063F01	CP., MA159
	Capa			ZD1501	48T83128F11	Zener, HZS7A2L
		23S75372W15	ELY., 1μF / 50V			
	E3108	23S75372W04	ELY., 10µF / 16V		<u> </u>	1
1		08S65128F35	CP., 100pF			
		08S35374W01	CP., 0.1μF	Capa	citors	Tel N
	C3113	08S82122F59	CP., 820pF		23S75372W02	ELY., 100μF / 10V
	<b>L</b>	l			23S75372W04	ELY., 10μF / 16V
		08S65128F76	CP., 0.1μF	E1103	23S75372W02	ELY., 100µF / 10V
1	E3501	23S75372W08	ELY., 100μF / 16V		23S75372W07	ELY., 47µF / 16V
		1		C1105	08S72783F31	CP., 470pF
1	1			F		FLV 47.5 (95)
	L	<u> </u>		E1105	23S75372W09	ELY., 4.7μF / 35V
			(All resistors are chip 1/10W±5%	C1106	08S72783F31	CP., 470pF
<u></u>	Resis		unless otherwise noted.)	4	23S75372W09	ELY., 4.7μF / 35V
1		06S64995F85	22K ohm		08S72783F31	CP., 470pF
1	i	06S64995F85	22K ohm	E1107	23S75372W15	ELY., 1μF / 50V
1	1	06S64995F85	22K ohm	6445-		00 470 5
1	1	06S64996F01	91K ohm	C1108	08S72783F31	CP., 470pF
	R3118	06S64995F95	56K ohm	E1108	23S75372W04	ELY., 10μF / 16V
	<b> </b>		100 .	C1109	08S53332F48	CP., 0.012µF
		06S64995F32	130 ohm	C1110	08S53332F48	CP., 0.012µF
1	R3507	06S70072F41	330 ohm 1/4W	C1111	08S65128F35	CP., 100pF
1	R3508	06S70072F41	330 ohm 1/4W		000000744404	0.0
	R3509	06S64995F77	10K ohm	C1112	08S35374W01	CP., 0.1μF
_		L			<u> </u>	<u> </u>

NOTE: ○: For TDA-7556R Model Only, □: For TDA-7550R Model Only, Others: Common. □: For TDA-7552R Model Only, □: For TDA-7550R Model Only, Others: Common.

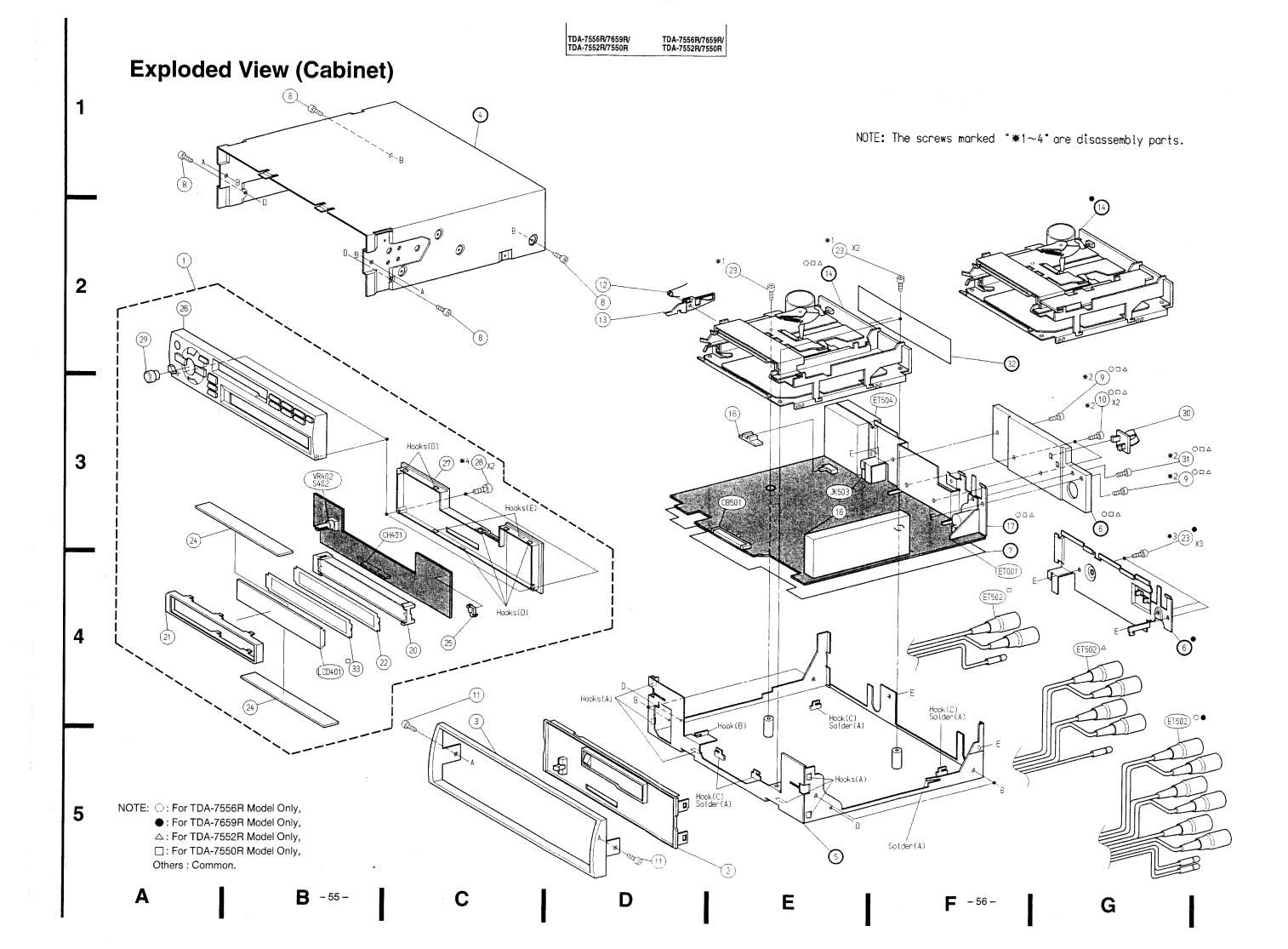
Symbol	Part No.	Description		mbol	Part No.	Description
No.			<b>┧</b> ┃ <u></u>	No.		1
	08S82122F59	CP., 820pF	11	•		į
C1501	08S65128F76	CP., 0.1μF	1	Capac C3101	08T35389W09	PF., 470pF
E1501	23S75372W08	ELY., 100μF / 16V	- [ ]		L	ELY., 100μF / 10V
l			11 1		23S75372W02	
1			11		08T35389W09	PF., 470pF
1			ا ا		23S75372W04	ELY., 10μF / 16V
		(All resistors are chip 1/10W±5%	11	C3103	08T35389W09	PF., 470pF
Resis	tors	unless otherwise noted.)	_11			
R1101	06S53330F32	130 ohm 1/8W	11	E3103	23S75372W02	ELY., 100μF / 10V
R1102	06S64996F15	360K ohm	- 11	C3104	08T35389W09	PF., 470pF
R1103	06S64995F80	13K ohm	11	E3104	23S75372W07	ELY., 47μF / 16V
R1104	06S53330F80	13K ohm 1/8W	- 11	E3105	23S75372W09	ELY., 4.7μF / 35V
R1105	06S53330F32	130 ohm 1/8W	11	E3106	23S75372W09	ELY., 4.7μF / 35V
			11	1		
R1106	06S64995F80	13K ohm	11	C3109	08T35122W02	PF., 0.012μF
R1107	06S64995F80	13K ohm	11	C3110	08T35122W02	PF., 0.012μF
R1108	06S64996F15	360K ohm	- 11			
R1109	06S53330F29	100 ohm 1/8W		ļ		
R1110	06S53330F65	3.3K ohm 1/8W	П	ļ		1
			- 11	Ì		
R1111	06S53330F65	3.3K ohm 1/8W	H			
R1112	06S53330F85	22K ohm 1/8W		<u> </u>	<u> </u>	(All resistors are chip1/8W±5%
R1113	06S53330F85	22K ohm 1/8W	Ш	Resis	stors	unless otherwise noted.)
R1116	06S64995F85	22K ohm		R3101	06S53330F32	130 ohm
R1117	06S64996F01	91K ohm	11	R3102	06S64996F12	270K ohm 1/10W
1,,,,,	00004000		11	R3103	06S64995F79	12K ohm 1/10W
R1118	06S64995F95	56K ohm	11	R3104	06S64995F80	13K ohm 1/10W
R1119	06S64995F32	130 ohm	H	R3105	06S53330F32	130 ohm
1	06S70072F41	330 ohm 1/4W	11			
R1507	1	330 ohm 1/4W	- 11	R3106	06S64995F80	13K ohm 1/10W
R1508	06S70072F41	10K ohm	- 11	R3107	1	12K ohm 1/10W
R1509	06S64995F77	Tok onin	H	R3108	1	270K ohm 1/10W
	00070070500	2K ohm 1/4W		R3109	1	100 ohm
R1510		2K ohm 1/4W	11	R3110	1	3.3K ohm
R1511	i	91K ohm 1/8W	- [ ]	1.0.10	000000000000000000000000000000000000000	J.G. V. S. M.
R1512	1		- 11	R3111	06S53330F65	3.3K ohm
R1513		91K ohm 1/8W	-	R3112	1	22K ohm
R1514	06S70072F53	1K ohm 1/4W		R3113	1	22K ohm
ł			- ! !	noilo	06333330163	221( 0181)
R1515	06S81094F09	M.F., 4.7 ohm 1/2W		1		
ı						
			H	1		1
1		1	╌			
			- 11		14	
			ᆚᄂ		ellaneous	MCD Connector
			Į į		09T75038W16	16P Connector
GR	Audio P.C.Bo	ard ( ●)	i		09T75039W16	16P Connector
			<b> </b>	ET001	1	Antenna Receptacle
IC_			][ <	ET502	01T85236W01	Assy., RCA Connector
IC310	1 51T64606F02	TA7705F	11			(REAR OUT/FRONT OUT/SUB-W/Audio
	1				1	Interrupt In/Remote Turn-On)
	1		•	ET502	01T85236W01	Assy., RCA Connector
					1	(REAR OUT/FRONT OUT/SUB-W/Audio
Dioc	de				1	Interrupt In/Remote Turn-On)
	48T81063F01	CP., MA159				
		1		∠ ET502	01T85236W02	Assy., RCA Connector (REAR OUT/
						F-OUT/NFP/Remote Turn-On)
		ZEECD Model Only				

NOTE: O: For TDA-7556R Model Only, D: For TDA-7559R Model Only, Others: Common.

S	ymbol	Part No.	Description	Symbol No.	Part No.	Description
_	No. IET502	01T85236W03	Assy., RCA Connector	140.		
-			(REAR OUT/Remote Turn-On)			•
	ET504	01T75292W04	Assy., ISO Connector (15A)			
		01T75292W03	Assy., ISO Connector (7.5A)			
		01T75292W04	Assy., ISO Connector (15A)			
_		01T75292W04	Assy., ISO Connector (15A)			
-	<b>'</b>		` '			
	HD1101	88T75612W02	Head			
		88T85509W01	Head			
		88T75612W02	Head			
		88T75612W02	Head			
1		09T55071W11	Ai-NET Connector			
С	LCD401	65T85084W01	LCD Display			
•	LCD401	65T85254W01	LCD Display			
		65T85084W02	LCD Display			
	LCD401	65T85084W03	LCD Display			
С	M1501	01V74500W16	Assy., Main Motor (13.2V-55mA)			
ı	1					
		01V84200W63	Assy., Main Motor (6V-90mA)	1		
Δ		01V74500W16	Assy., Main Motor (13.2V-55mA)	l l		
	M1501	01V74500W16	Assy., Main Motor (13.2V-55mA)	İ		
ı	ľ	01V74500W23	Assy., Sub Motor (7V-370mA)			
	PT1501	51T63433F03	Sensor, Photo ON2170-R2			
	PT1502	51T63433F03	Sensor, Photo ON2170-R2			
1	S1501	40T15222W01	Switch, Detector (PACK IN)			
	S1502	40T15382W02	Switch, Detector (PAUSE)	i		
ı	S1503	40T15382W02	Switch, Detector (MODE)	İ		
1	S1504	40T15382W02	Switch, Detector (METAL)	ŀ		
1			İ	1		
	VR402 <b>T</b>	40T45670W05	Rotary Encoder Volume			
	S402 J		(AUDIO CONTROL/MODE • LOUD)	ı		
	1					
				I		
		ŀ		1		·
				1		
		Ì				
			1			
	1					
			1	1		
	1					
					1	
	1					
1	1		1			
1					1	
L		1	1			

NOTE: ○: For TDA-7556R Model Only, □: For TDA-7550R Model Only, Others: Common. △: For TDA-7552R Model Only,

**MEMO** 



### **Cabinet Assembly Parts List**

					NC	TE:I	No pa	arts number on	parts list are not supplied.
Syr	nbol	Index	Part No.	Description			Index		Description
	o.			·	N	lo.			
0	1	2-A	01V83100W28	Assy., Nose Unit	Δ	31	3-G	03S44205G61	Screw, Pan (M2.6X10)
•	1	2-A	01V83100W66	Assy., Nose Unit		31	3-G	03S44205G61	Screw, Pan (M2.6X10)
Δ	1	2-A	01V83100W57	Assy., Nose Unit		33	4-B	26A80519W02	Reflector, Sheet
	1	2-A	01V83100W61	Assy., Nose Unit					
0	2	5-E	13C70374W04	Assy., Front Escutcheon					
Ĭ					•		ł		
	2	5-E	13C70374W05	Assy., Front Escutcheon					
Δ	2	5-E	13C70374W04	Assy., Front Escutcheon					
	2	5-E	13C70374W04	Assy., Front Escutcheon		1	l		
	3	5-C	33C00544K01	Assy., Face Plate		1			
	or	5-C	33C81778W01	Assy., Face Plate	1				
					1		ļ		
	8		03S38013W24	Screw, Pan (M2.6X6)	1				
0	9	3-G	03S44205G33	Screw, Pan (M2.6X8)	ı	l			_
Δ	9	3-G	03S44205G33	Screw, Pan (M2.6X8)	1	1	l		
	9	3-G	03S44205G33	Screw, Pan (M2.6X8)		1			
0	10	3-G	03S38013W02	Screw, Pan (M2.6X14)	1				
1		1							
Δ	10	3-G	03S38013W02	Screw, Pan (M2.6X14)	1				
	10	3-G	03S38013W02	Screw, Pan (M2.6X14)	1				
	11	1	03S38013W13	Screw, Bind (M2.6X6)					
	12	2-D	41A20424W01	Spring, Door			1		1
1	13	2-D	45C61079W01	Lever, Door			1		1
	16	3-E	36A70327W01	Knob, Slide	ł	ł			
	18	3-E	77B60578W01	FM/MW/LW Tuner Unit, MB4R3010	1				
l	ŀ			(FE001)	1				
	20	4-C	15C00540K01	Assy., Case, LCD	1				
	21	4-A	15B00536K01	Cover, LCD	1			İ	
0	22	4-C	26A80519W03	Reflector, Sheet		ļ	1		
	1								
•	22	4-C	26A80519W03	Reflector, Sheet		l			
Δ	22	4-C	26A80519W03	Reflector, Sheet	1		1	i	
	22	4-C	26A80519W01	Reflector, Sheet	1				į
0	23		03S44205G29	Screw, Pan (M2.6X6)	1				İ
•	23		03S44205G07	Screw, Pan (M2.6X5)	1	l			1
1	l				1	1			]
Δ	23		03S44205G29	Screw, Pan (M2.6X6)				1	
	23		03S44205G29	Screw, Pan (M2.6X6)	1		ł	1	
	24		75T85247W01	Rubber, Electric	ı	1	1		
	25	4-C	15A80548W01	Cover, LED	1	1	1		
0	26	2-A	13D80502W01	Assy., Nosepiece			1	1	
			-				1		
•	26	2-A	13D80502W09	Assy., Nosepiece			1		
Δ	26	2-A	13D80502W07	Assy., Nosepiece			1	1	]
	26		13D80502W08	Assy., Nosepiece		1	1		
	27		1	Nose, Bottom					
	28	3-C	03S71677F56	Screw, Pan (M1.7X12)			1		
	l .						1		•
	29	2-A	36B80547W01	Knob, Rotary (VOLUME)			1	1	
	30	3-G	15A70387W01	Holder, Antenna			1		
0	31	3-G	03S44205G61	Screw, Pan (M2.6X10)	1	l	1		
	ı	3	I	1		1		1	I

NOTE: ○: For TDA-7556R Model Only, □: For TDA-7550R Model Only, □: For TDA-7550R Model Only, Others: Common.

**–** 57 –

# **Disassembly Instructions**

#### 1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Part No. 68P81402W53).

#### 2. Removal of Front Escutcheon

(1) After removal of Face Plate and Top Cover, remove the Hooks (A). ......Hooks (A) (4-D, 5-E)

#### 3. Removal of Cassette Deck

- (3) Disconnect the connector from Main P.C. Board.

#### 4. Removal of Main P.C. Board (TDA-7556R/7552R/7550R Model Only)

- (1) After removal of Cassette Deck, remove five screws No. 9, 10, 31, ......Screws No. 9, 10, 31 (\*\*2) (3-G) and remove the Heat Sink.
- (3) Main P.C. Board with Bracket IC can be removed completely.

#### 5. Removal of Main P.C. Board (TDA-7659R Model Only)

(1) After removal of Cassette Deck, remove three screws No. 23.
 (2) Remove the Solder (A) and Hooks (C).
 (3-G)
 (3-G)
 (5-E, 5-F)

Hooks (C) (5-E, 5-F)

(3) Main P.C. Board with Bracket Rear can be removed completely.

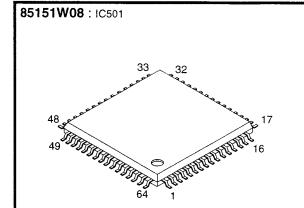
#### 6. Removal of Front P.C. Board

- (1) After removal of Nose Unit, remove the Rotary Knob and two screws No. 28. .....Screws No. 28 ( \*4) (3-C)
- (3) Remove the Hooks (E). ......Hooks (E) (3-C)

NOTE: For the screws No., Hooks, and Solder, refer to the Exploded View (Cabinet).

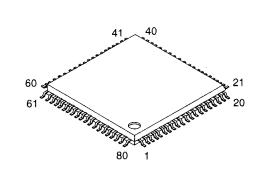
# **Semi - Conductor Lead Identifications**

**NOTE**: For the parts not mentioned, refer to the Schematic Diagram.



PIN NO.		CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.		CODE ADDRESS	1/0
1	0	NFP EV DATA	0	20	PACK IN	1	43	GND		-
,	ΔΠ	NC	_	21	REV. DET	1	44	NC		-
2	NOSE	PWR	0	22	MODE SW	1	45	GND		<b>Τ</b> –
3	ΟΦΔ	BUZZER	0	23	FOR DET	1	46	GND		1-
3		NC	-	24	GND	T-	47	Ai-NET	ĪN/OUT	1
4	DTS ST	ART	0	25	PAUSE SW	. 1		O•	IN INT	T
5	DTS MI	JTE	1	26	MUTE	0	48	Δ0	PULL-DOWN	†-
6	DTS C		0	27	NFP-1	0	49	MODEL	-	T
7	ALARM		0	28	NFP-2	0	50	ENCO	DER 1	ī
8	0	NFP EV CE	0	29	EV-DATA	1/0	51	ENCO	DER 2	1
	Δ□	NC	-	30	EV-CLK	0	52	GND		1-
9	GND		<u> </u>	31	PWRIC	0	53	GND		-
10	DOLBY	В	0	32	PWRON	0	54	NOSE-	DET	1
11	ΟΦΔ	DOLBY C	0	33	NC	1-	55	VDD		Ι-
		NC	-	34	BUS OUT	0	56	VDD		-
12	L.O. F/	AST	0	35	RESET	ı	57	LCD DO	)	П
13	FOR/R	≣V	0	36	REMOCON	1	58	LCD DI		0
14	O. MO	OR	0	37	BUS IN	1	59	LCD CL	,K	0
15	R-IN		0	38	ACC DET	1	60	LCD CE	<u> </u>	0
16	F⊣N		0	39	BAT DET	1	61	LCD RS	ST	0
17	MTR FA	ST	1	40	V <sub>DD</sub>	1-	62	DTS ST	s	1
18	M.S. D	ET	1	41	X2	0	63	DTS CA	MD	0
19	METAL		1	42	X1	1	64	DTS CL	ĸ	0





PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0
1	LW	0	21	NC	-	41	NC	-	61	RDS CLK	1
2	LO/DX	0	22	NC	-	42	NC	-	62	RDS DATA	T
3	MONO	0	23	NC	_	43	NC	-	63	DTS CE	1
4	AVSS	-	24	NC	-	44	NC	-	64	NC	-
5	LPF SW	0	25	NC	-	45	NC	-	65	NC	-
6	IF MUTE	0	26	NC	-	46	NC	-	66	NC	-
7	AV <sub>REF</sub> 1	-	27	NC	-	47	NC	-	67	50K REF	0
8	RXD	1	28	NC	-	48	NC	-	68	V <sub>DD</sub>	-
9	TXD	0	29	NC	-	49	NC	-	69	X2	-
10	SYNC	0	30	NC	-	50	NC	-	70	X1	-
11	PLL CLK	0	31	NC	-	51	NC		71	GND	-
12	PLL DATA	0	32	NC	-	52	NC	-	72	NC	_
13	PLL CE	0	33	GND	-	53	NC	1	73	PLL DATA I	-
14	DTS MUTE	0	34	NC	-	54	NC	_	74	AVDO	=
15	DTS START	1	35	NC	_	55	NC .	-	75	AV <sub>REF</sub> 0	-1
16	DTS CMD	1	36	NC	-	56	NC	_	76	S.METER	ī
17	DTSSTS	0	37	NC	-	57	NC	_	77	A/I	ı
18	DTS CLK	1	38	NC	-	58	FM/ĀM	0	78	M.P	1
19	NC	-	39	NC	-	59	AUDIO IN	1	79	ST	1
20	NC	-	40	NC	_	60	RESET	1	80	SD	- 1

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,

☐: For TDA-7550R Model Only, Others : Common.

# **MEMO**

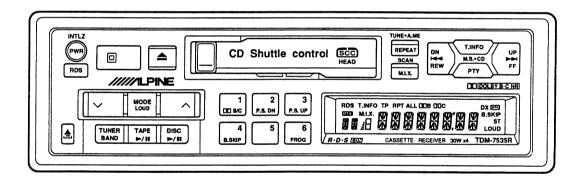




# FM/MW/LW/RDS Cassette Receiver

#### CD Shuttle Controller

● For the cassette deck mechanism parts (GR75H110/120) of this model, refer to the Service Manual • GR/GR-Y Series (68P20504W07),  $\neq 293$ 



# -Contents -

Specifications	3 to 4
In Case of Difficulty	4 to 5
Connections	5 to 6
Basic Operation	7
Radio Operation	8 to 9
Cassette Player Operation	9 to 10
CD Shuttle Operation	11
RDS (Radio Data System)	12 to 14
Disassembly Instructions	15
Adjustment Procedures	16 to 18
Adjustment Locations	19
Description of IC Terminal	20 to 22
LCD Display	23
Block Diagram	24
Tuner Schematic Diagram	25
Parts Layout on P.C. Boards and Wiring Diagram (1/2)	
Parts Layout on P.C. Boards and Wiring Diagram (2/2)	30 to 32
Schematic Diagram (1/3)	33 to 35
Schematic Diagram (2/3)	36 to 38
Schematic Diagram (3/3)	39 to 41
Electrical Parts List	42 to 50
Exploded View (Cabinet)	51 to 52
Cabinet Assembly Parts List	53
Packing Assembly Parts List	54
Packing Method View	54
Semi-Conductor Lead Identifications	
Spare Schematic Diagram Inserted.	

# **Specifications**

۲	M	RADIO	_

I WITADIO	
Intermediate Frequency	
Frequency Range	
Usable Sensitivity (Mono, 30dB S/N, at 98.1MHz)	
-3dB Limiting Sensitivity (at 98.1MHz)	19.2dBf
S/N Ratio (Stereo, at 98.1MHz)	
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dB $\mu$ , at 98.1MHz)	
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB
	10kHz : -12 <u>+</u> 3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	
TP Sensitivity (at 98.1MHz)	36.2dBf
MW RADIO	
Intermediate Frequency	450kHz
Frequency Range	531∼1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	35dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	
	4kHz : -12+6, -12dB
LW RADIO	
Intermediate Frequency	450kHz
Frequency Range	153~281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	41dB
S/N Ratio (at 216kHz)	42dB
Image Rejection (at 270kHz)	40dB
IF Rejection (at 162kHz)	50dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3 ± 4dB
	4kHz : -12+6, -12dB
TAPE PLAYER	
Wow & Flutter (JIS, WRMS/MTT-111N)	0.2%
Tape Speed (MTT-111N)	
S/N Ratio (MTT-212N)	
	DOLBY B NR : 60.5dB (□, △)
	DOLBY C NR : 67dB (△)
Distortion (MTT-118N)	•
,	

Separation (MTT-141N) 35dB Crosstalk (MTT-121N) 45dB **GENERAL** Power Output/Impedance 11W/ch/4ohm (O, D) 14W/ch/4ohm (△) 22IC's, 41Transistors, 27Diodes, 6Zener Diodes ( ) 22IC's, 51Transistors, 27Diodes, 7Zener Diodes (△) Dimensions (W $\times$ H $\times$ D) ...... Chassis : 178 $\times$ 50 $\times$ 155mm Nose: 169 × 45 × 22 mm Note: Due to Continuing product improvement, specifications and designs are subject to change without notice. ○ : For TDM-7531R Model Only, : For TDM-7532R Model Only, △ : For TDM-7535R Model Only, Others: Common.

#### In Case of Difficulty

Erigiisr
If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

	Initial Turn-on After Installation
Symptom/Symptôme/Sintoma	Cause and Solution
No function or display./Fonctions inopérantes ou pas d'affichage./La unidad no funciona ni hay visualización.	Car's ignition is off.     If connected following instructions, the unit will not operate with the car's ignition off.
	Improper power lead connections.     Check power lead connections.
	Blown fuse.     Check the fuse on the rear panel of the unit; replace with the proper value if necessary.

#### In Case of Difficulty

	Englis
	Radio Mode
Symptom/Symptôme/Sintoma	Cause and Solution
Unable to receive stations./Impossible de recevoir les stations./Es imposible recibir emisoras.	No antenna or open connection in cable.     Make sure the antenna is properly connected; replace the antenna or cable if necessary.
Unable to tune stations in the seek mode./ Impossible d'accorder les stations en mode de recherche automatique./Es imposible sintonizar emisoras en el modo de búsqueda.	You are in a weak signal area.  Make sure the tuner is in the DX mode.  If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.  Check your antenna connections; make sure the antenna is properly grounded at its mounting location.  The antenna may not be the proper length.  Make sure the antenna is fully extended; if broken, replace the antenna with a new one.
Broadcast is noisy./Réception parasitée./La recepción es ruidosa.	The antenna is not the proper length. Extend the antenna fully; replace it if it is broken. The antenna is poorly grounded. Make sure the antenna is grounded properly at its mounting location.

	Tape Mode
Output sounds dull/Sortie de son atténuée./ El sonido se oye inestable.	The tape head needs cleaning. Clean the tape head. Incorrect Dolby NR in use. Check Dolby NR switch setting.

#### In Case of Difficulty

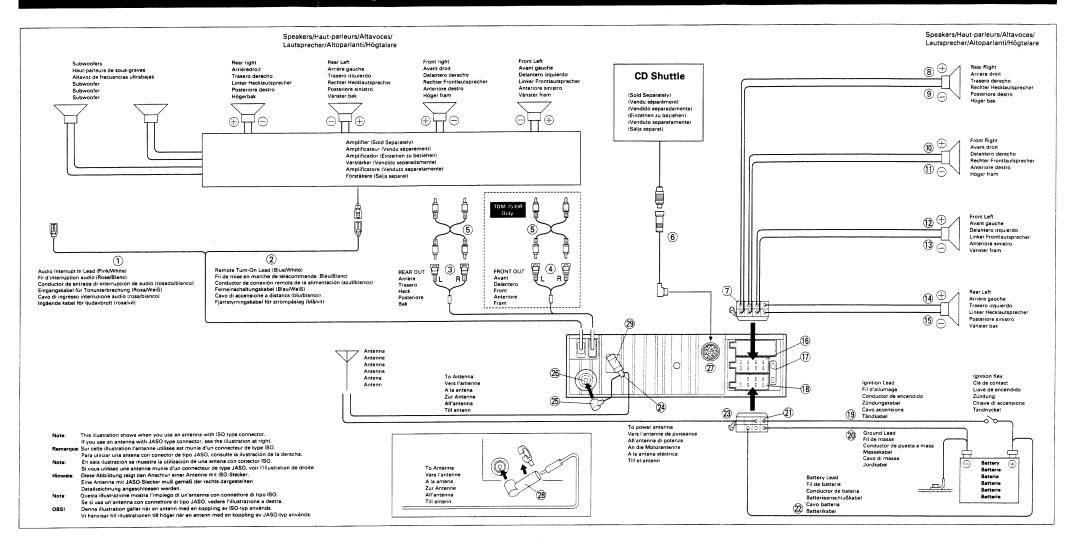
Engl	lish
------	------

	CD Shuttle Mode
Symptom/Symptome/Sintoma	Cause and Solution
CD Shuttle not functioning./Le changeur CD ne fonctionne pas./El cambiador de discos compactos no funciona.	Out of operating temperature range +50°C (+120°F) for CD.     Allow the car's interior (or trunk) temperature to cool.
CD playback sound is wavering./Le son de lecture de CD est déformé./El sonido de reproducción de un disco compacto oscila.	Moisture condensation in the CD Module.     Allow enough time for the condensation to evaporate (about 1 hour).
Unable to fast forward or backward./Avance rapide ou inversion impossibles./El disco no avanza ni retrocede.	The CD has been damaged. Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism.  The CD has been damage to the mechanism.
Sound skips due to vibration./Pertes de son dues à des vibrations./El sonido salta debido a las vibraciones.	Improper mounting of the CD Shuttle.     Securely re-mount the CD Shuttle.     Disc is very dirty.     Clean the disc.     Disc has scratches.     Change the disc.
Sound skips without vibration./Perles de son non dues à des vibrations./El sonido salta sin haber vibraciones.	Dirty or scratched disc.     Clean the disc; damaged discs should be replaced.
Single (8 cm) disc does not play./Impossible de reproduire un CD de 8 cm./No es posible reproducir un disco sencillo (8 cm).	Single CD adaptor is not used.     Attach a single CD adaptor (recommended by Alpine) to the single disc and insert into the CD magazine.

#### English

	Indication for CD Shuttle
Indication/Indication/Indicación	Cause and Solution
н	Protective circuit is activated due to high temperature.  The indicator will disappear when the temperature returns to within operation range.
ERROR-01	Malfunction in the CD Shuttle.     Consult your Alpine dealer.     Press the magazine eject button and pull out the magazine. Check the indication. Insert the magazine again. If the magazine cannot be pulled out, consult your Alpine dealer.
	Magazine ejection not possible.     Press the magazine eject button.     If the magazine does not eject, consult your Alpine dealer.
ERROR-02	A disc is left inside the CD Shuttle.     Press the EJECT button to activate the eject function. When the CD Shuttle finishes the eject function, insert an empty CD magazine into the CD Shuttle to receive the disc left inside the CD Shuttle.
NO MAGZN	No magazine is loaded into the CD Shuttle.     Insert a magazine.
NO DISC	No indicated disc.     Choose another disc.

#### Connections/Anschlüsse/Connexions/Collegamenti/Conexiones/Anslutningar



- Audio Interrupt In Lead (Pink/White) (TDM-7535R only)
   Remote Turn-On Lead (Blue/White) Connect this lead to the remote turn-on lead of your amplifier or signal processor.

  Rear Output RCA Connectors
  RED is right and WHITE is left.

  Front Output RCA Connectors (TDM-7535R only)
- RED is right and WHITE is left.
  RCA Extension Cable (Sold Separately) DIN Extension Cable (Sold Separately)

NOTE:
If the DIN Extension cable supplied with the CD Shuttle does not have an "L" shaped connector, connection may be hindered at certain installation locations. In this case, purchase a 491002

Adaptor (sold separately).
ISO Connector (Speaker Output, Female) Right Rear (+) Speaker Output Lead (Violet)
Right Rear (-) Speaker Output Lead (Violet/Black)
Right Front (+) Speaker Output Lead (Grey) Right Front (-) Speaker Output Lead (Grey/Black)
Left Front (+) Speaker Output Lead (White)
Left Front (-) Speaker Output Lead (White/Black) Left Rear (+) Speaker Output Lead (Green) Left Rear (-) Speaker Output Lead (Green/Black) ISO Connector (Speaker Output, Male)

ISO Power Supply Connector (Male)

Switched Power Lead (Ignition) (Red) Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.

Ground Lead (Black) Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fas-

tened using the sheet metal screw provided. ISO Power Supply Connector (Female) Battery Lead (Yellow)

Connect this lead to the positive (+) post of the vehicle's battery.

Power Antenna Lead

When loaded with a power antenna, connect to the +B terminal

of the power antenna.

Hook (Small) ISO Antenna Plug Antenna Receptacle

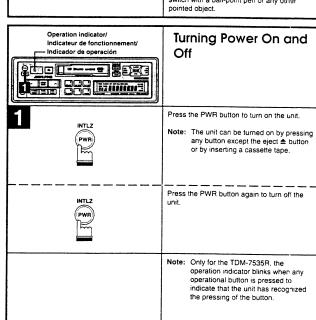
**DIN Connector** 

Connect this to the DIN connector on the CD Shuttle.

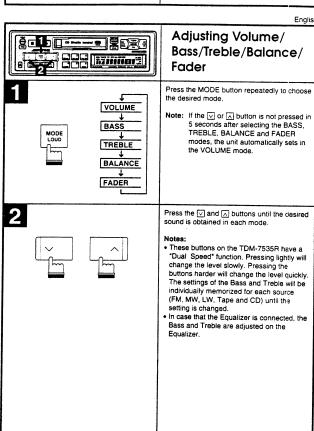
JASO/ISO Antenna Adaptor (Included)

#### **Basic Operation**

Initial System Start-Up 1 When operating the unit for the first time after nstallation or after the vehicle's battery has been disconnected and reconnected, set the volume level to its minimum, then remove the detachable front panel. Press the Reset switch with a ball-point pen or any other pointed object

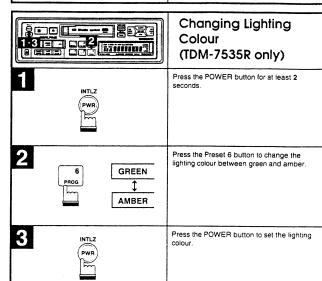


English



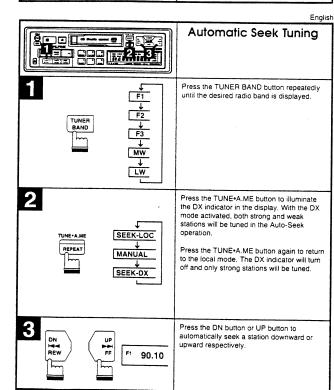
#### **Basic Operation**

Turning Loundness On/Off oudness introduces a special low- and highfrequency emphasis at low listening levels to compensate for the ear's decreased sensitively to bass and treble sound. Press the LOUD button for at least 2 seconds o activate or deactivate the loudness mode. MODE

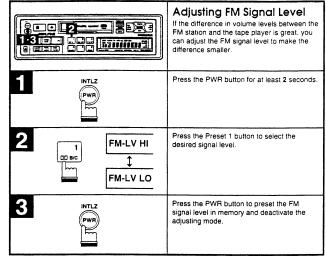


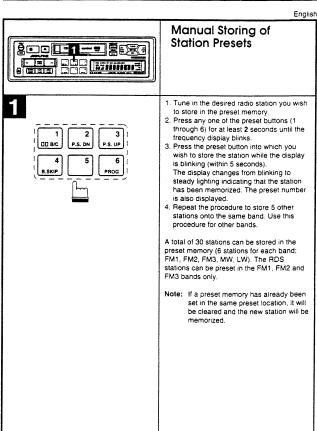
#### **Radio Operation**

English **Manual Tuning** Press the TUNER BAND button repeatedly F 1 **F** 2 TUNER F 3 ₩W LW 2 Press the TUNE•A.ME button repeatedly until "MANUAL" is displayed. SEEK-LOC REPEAT MANUAL Note: The initial mode is SEEK-DX. SEEK-DX 3 Press the DN or UP button to move downward or upward one step respectively until the desired station frequency is displayed. 90.10

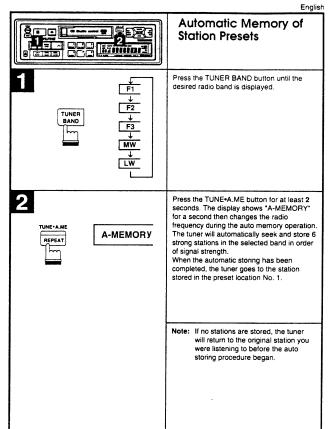


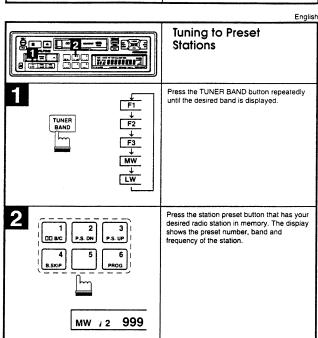
#### **Radio Operation**



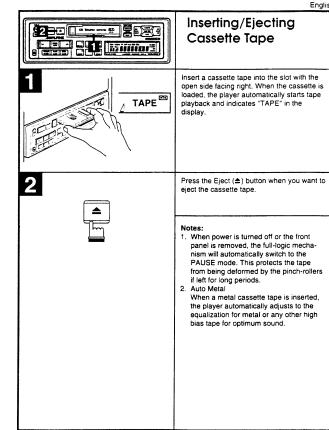


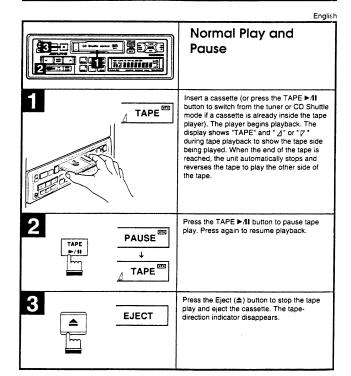
#### **Radio Operation**



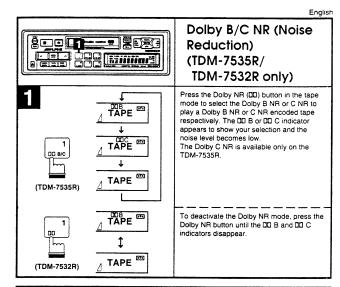


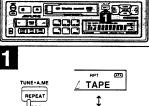
#### **Cassette Player Operation**





#### **Cassette Player Operation**

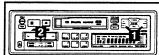




Repeat Play (TDM-7535R/ TDM-7532R only)

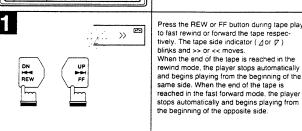
Press the REPEAT button to play back repeatedly the current programme being played. The RPT indicator appears and the programme will be played repeatedly.

Press the REPEAT button to stop the repeat play. The RPT indicator disappears.



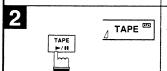
# Fast Forward and Rewind

English

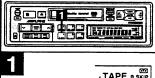


APT - TO

TAPE



Press the TAPE ►/II button to stop fast rewinding or forwarding to resume tape play. The tape side indicator changes to steady lighting.



Blank Skip (B.SKIP) (TDM-7535/ TDM-7532R only)

TAPE B.SKIP

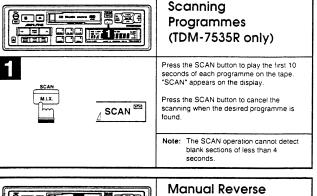
Press the B.SKIP button during tape play to skip over blank portions of the tape lasting 15 seconds or longer, "B.SKIP" appears on the display.

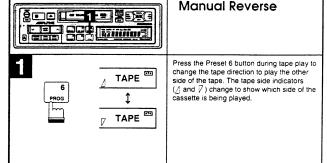
Press the B.SKIP button to cancel the blank skip mode. "B.SKIP" disappears from the display.

#### **Cassette Player Operation**

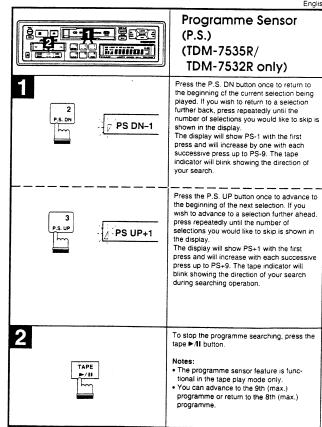
\_\_\_\_\_

English





En



#### **CD Shuttle Operation**

#### Controlling CD Shuttle (Optional)

If an optional Alpine 6-disc CD Shuttle is connected to the 8-pin DIN connector of the TDM-7535R/TDM-7532R/TDM-7531R, you can control the CD Shuttle using the TDM-7535R/TDM-7532R/TDM-7531R.

Notes: The controls on the TDM-7535R/ TDM-7532R/TDM-7531R for the CD operation are operative only when the CD Shuttle is interconnected with the TDM-7535R/TDM-7532R/ TDM-7531R.

DISC >/II D3 T05 2'58

1 2 2 3 P.S. DN P.S. UP

The display example shows when playing the Track 5 on the Disc 3.

Press the DISC ►/II button to activate the connected CD Shuttle.
The display shows the disc number and

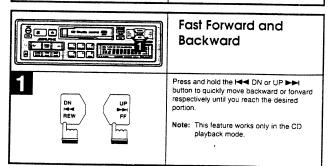
Press the Preset buttons to select the desired disc loaded in the CD Shuttle

3 D3 TO5 PAU

Press the DISC ►/III button to pause CD play. The display shows "PAU."
To resume CD play, press again.
The PAU indicator disappears.

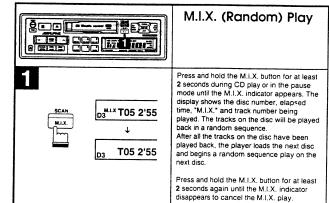
English

#### Music Sensor (M.S.) Skip Momentarily press the DN I◀◀ button once o return to the beginning of the current track. D3 T05 2'36 If you wish to return to the beginning of a track further back, repeatedly press until you reach the desired track. (The display D3 T05 0'00 example shows when you are playing the track No. 5 of the disc 3.) D3 T04 0'00 Press the UP >> button once to advance to the beginning of the next track. If you wish to advance to a track further ahead, press repeatedly until the desired track is reached D3 T05 2'36 lote: The music sensor feature is functional in the play or pause mode. D3 T06 0'00



#### **CD Shuttle Operation**

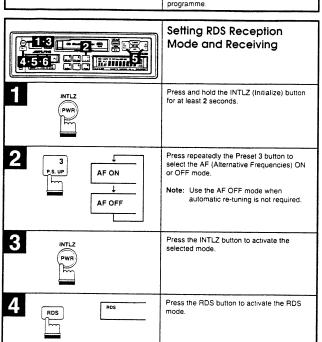
Repeat Play on Single Track or Entire Disc Press the REPEAT button to display "RPT" or "RPT ALL" to play back repeatedly the current track being played or the entire disc REPEAT Note: Single track cannot be repeated RPT during M.I.X. play. RPT ALL

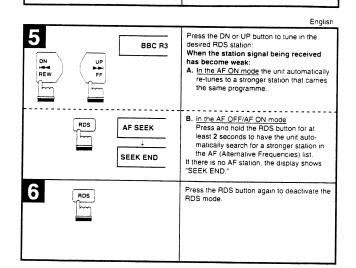


#### RDS (Radio Data System)

English

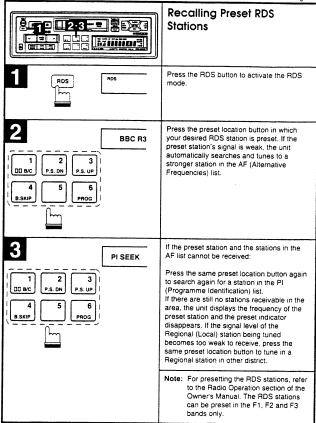
The RDS (Radio Data System) is a radio information system using the 57 kHz subcarrier of regular FM broadcast. The RDS allows you to receive a variety of information such as traffic information, station names, and to automatically re-tune to a stronger transmitter that is broadcasting the same programme.





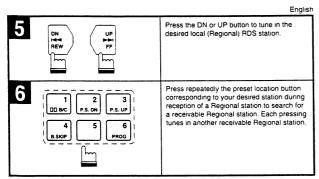
#### RDS (Radio Data System)

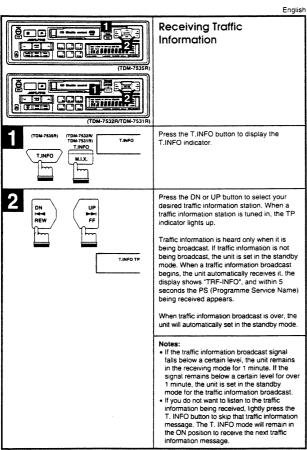
English



Receiving RDS Regional (Local) Stations 913 IF6 - ■ BEE Press and hold the INTLZ button for at least PWR Press the Preset 4 button to turn on or off the REG (Regional) mode.
In the REG ON mode, the unit automatically REG ON B.SKIP keeps receiving the related local RDS REG OFF 3 Press the INTLZ button to activate the Press the RDS button to activate the RDS 4 RDS

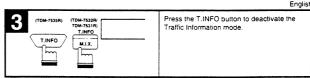
#### RDS (Radio Data System)

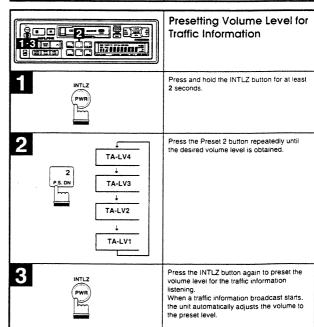




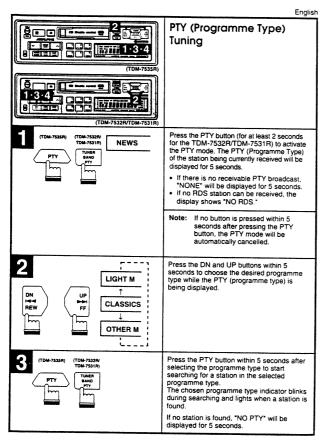
#### RDS (Radio Data System)

English Receiving Traffic Ř. □ □ III ··· Information While Playing Casstte or Radio 13 Press the T.INFO button until the T.INFO T.INFO M.I.X. Press the DN and UP buttons to select a traffic information station if necessary. 2 F1 101.50 . When a traffic information broadcast starts. When a traftic information broadcast star the unit automatically mutes the cassette tape or the regular FM broadcast. When the traffic information broadcast finishes, the unit automatically returns to the original source play before the traffic information broadcast began. DN H<del>4</del>≪ REW When traffic information stations When traffic information stations cannot be received:
In the tuner mode:
When the TP signal can no longer be received, an alarm will be sounded after 1 minute.
In the tape mode:
When the TP signal can no longer be received, the traffic information station of another frequency will be selected automatically. automatically. The receiver is equipped with the EON (Enhanced Other Networks) function in order to keep track of additional alternative frequencies to the AF list. If the station being received does not broadcast the traffic information, the receiver automatically tunes in the related station that broadcasts the traffic information, when if continuously times in the related station that broadcasts the traffic information, when if continuously times in the related in the station of information when it occurs





#### RDS (Radio Data System)

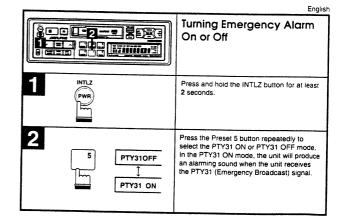


English

TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7533FN (TDM-7533FN)
TDM-7535FN (TDM-7535FN)
TDM-7535FN (TDM-7535FN)
TDM-7535FN (TDM-7535FN)
TDM-7535FN (TDM-755N)
TDM-7535FN (TDM-75N)
TDM-7535FN (TDM-75N)
TDM-7

#### RDS (Radio Data System)

English Priority PTY (Programme ğoo [---- 2624 Type) (TDM-7535R ONLY) This function allows presetting of a programme type such as music category, news, etc. You can listen to a programme in the preset programme type as the unit automatically gives priority to the preset programme type when it begins broadcasting, and interrupts the programme you are currently listening. This feature is functional when your unit is set to a mode automatically gives priority to the preset Press and hold the PTY button for 2 seconds to activate the PRIORITY PTY PRIO PTY PTY "PRIO PTY" is displayed for 2 seconds and then the program type for 5 seconds. The initial setting is "NEWS." "NEWS Note: If no button is pressed within 5 seconds after pressing the PTY button, the PRIORITY PTY mode is automatically cancelled. 2 Press the DN or UP button within 5 seconds MEWS while \*NEWS\* is being displayed to choose a desired programme type. Then press and hold the PTY button for 2 seconds. The PRIORITY PTY function will activate. DN I◀◀ REW BBC R3 3 Press and hold the PTY button for 2 seconds to activate the PRIORITY PTY To change the program category, perform the step 2.
To disable the PRIORITY PTY function, press the PTY button for less than 2 Note: In the PRIORITY PTY function, unlike in the T.INFO function, the volume does not increase during operation.



## **Disassembly Instructions**

#### 1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Part No. 68P61329W47).

#### 2. Removal of Front Escutcheon

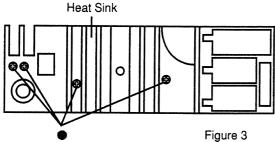
 After removal of Assy., Face Plate and Top Cover, remove the Hooks (a) as shown in Figure 1

#### 3. Removal of Cassette Deck

- (1) After removal of Front Escutcheon, remove three screws marked "○" and the Hook (b) as shown in Figure 2.
- (2) Disconnect one Connector from the Cassette Deck.

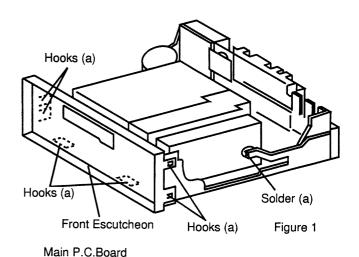
#### 4. Removal of Main P.C.Board

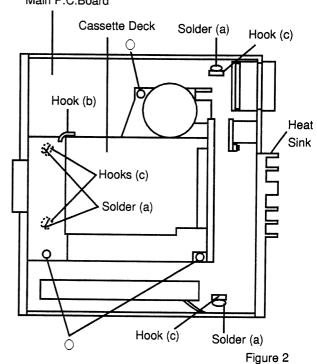
- (1) Remove the four screws marked "●" as shown in Figure 3.
- (2) Remove the solder (a) and Hooks (c) as shown in Figure 1, 2.
- (3) Disconnect two Connectors from the Main P.C.Board.

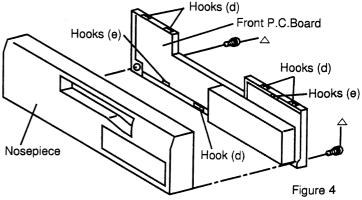


#### 5. Removal of Front P.C.Board

- (1) After removal of Nose Unit, remove two screws marked "△" and the Hooks (d) as shown in Figure 4.
- (2) Remove the Hooks (e) as shown in Figure 4.



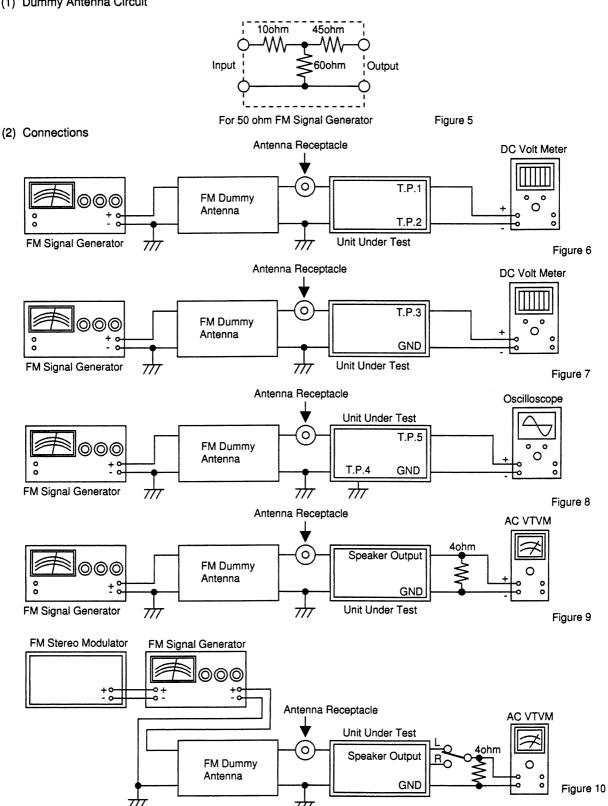




# **Adjustment Procedures**

#### 1. FM SECTION

(1) Dummy Antenna Circuit



# (3) Control Settings Power Switch ON Fader Control Center Position Balance Control Center Position Treble / Buss Control Center Position Band Switch FM Others OFF

#### (4) Adjustment Procedures

Step	Description Connection			Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment Figure 6		98.1 MHz, 72dB (Mod. OFF)	·   QX 1MH2		Adjust L2101 to 0 ±15mV.	
2	Signal Meter Adjustment Figure 7		98.1MHz, 46dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.3	Adjust VR2101 to 3.5 ±0.1V	
3	Seek Stop Adjustment	rit Figure 8 98.1MHz, 30dB (Mod. OFF) 98.1MHz T.P.4 T.P.5 Changing to maxim Figure : Waveform T.P.4 T.P.5 Stop the adjust VI					Adjust VR2104 for the waveform changing to maximum output. Figure: Waveform of T.P.5 output.  MAX.  Stop the adjust VR2104 at this time.
4	Noise Level	Noise Level Adjustment (1) Figure 9 (2) Figure 9		98.1MHz, 72dB (Mod. 400Hz, 98.1MHz Dev. 40kHz)		Speaker Output	Adjust MAIN VOLUME (S411 ( ○□), S422 ( ○□), S418 ( △), S428 ( △)) to obtain 2V output. This value is 0dB.
	Adjustment			98.1MH, -19dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	Speaker Output	Adjust VR2105 to $-25 \pm 3 \mathrm{dB}$ output at SG level minimum.
5	Stereo Blend Adjustment Figure 10 (Lch)		Figure 10	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	Speaker Output	Adjust VR2102 for Lch and Rch output level difference to be 8 ±2dB.
6	Stereo Separation Adjustment (Lch) Figure 10		98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	Speaker Output	Adjust VR2103 for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 20dB.	
7	Stereo Blend Adjustment Figure 10 (Rch)		98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	Speaker Output	Proceed same adjustment under step 5.	
8	Stereo Separation Adjustment (Rch) Figure 10		98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	Speaker Output	Proceed same adjustment under step 6 by alternating Lch and Rch.	

Note :  $\bigcirc$  : For TDM-7531R Model Only,

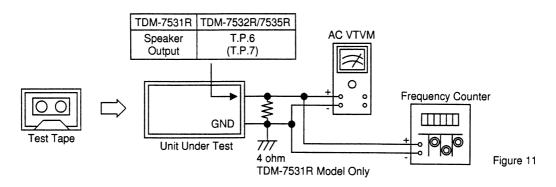
☐ : For TDM-7532R Model Only ,

 $\triangle$ : For TDM-7535R Model Only,

Others: Common.

#### **2 TAPE PLAYER SECTION**

#### (1) Connections



(2) Control Settings

Power Switch	ON
Fader Control	Center Position
Balance Control	Center Position
Treble / Buss Control	Center Position
Others	OFF

#### (3) Adjustment Procedures

Step	Description	Test Tape	Connection	Test Point		Adjustment Point	Adjustment
1	Head Azimuth	MTT-114NB	Figure 11	0	Speaker Output	Head Azimuth	Adjust for Max. and same level output at Normal and Reverse positions.
	Adjustment	(14kHz)			T.P.6 (Lch) T.P.7 (Rch)	Adjustment Screws (Figure 12)	
2	Dolby Level Adjustment (TDM-7532R/ 7535R Model Only)	MTT-150 (400Hz)	Figure 11	T.P.6 (Lch) T.P.7 (Rch)		VR201 (Lch) VR202 (Rch)	Adjust for 245mV ( $\square$ )/388mV( $\triangle$ ) $\pm$ 1dB at T.P.6 (Lch) and T.P.7 (Rch).
Tape Speed Adjustment	' '	MTT 111N		0	Speaker Output	Tape Speed	Adjust for 2,970 to 3,090Hz at T.P.6 (T.P.7).
		· · ·	Figure 11		T.P.6 (Lch) or T.P.7 (Rch)	Adjustment (Figure 13)	

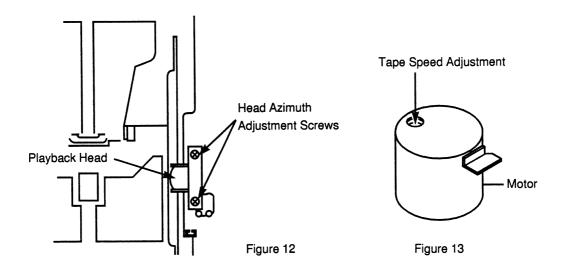
Note : ○ : For TDM-7531R Model Only,

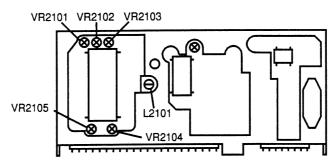
☐ : For TDM-7532R Model Only ,

△ : For TDM-7535R Model Only,

Others: Common.

# **Adjustment Locations**





FM / MW/LW Tuner Unit (FE001)

Note : For the Adjustment parts (S411( $\bigcirc$  $\square$ ), S422( $\bigcirc$  $\square$ ), S418( $\triangle$ ), S428( $\triangle$ ), VR201, VR202) and Test Points, refer to the Parts Layout on P.C.Boards and Wiring Diagram.

# **Description of IC Terminal**

45609W26 : IC501

No.	Symbol							
1 1	NOSE ON	1/0	Terminal Description					
			Front panel detection terminal.					
2	AV <sub>REF</sub>	1	Reference voltage input terminal for A/D converter.					
3	$V_{DD}$	_	V <sub>DD</sub> terminal.					
5	AV REF OUT	0	Reference voltage output terminal to A/D converter.					
6	PLAY SOL	0	Play Solenoid control signal output terminal in deck mechanism.					
7	RF SOL	0	RF Solenoid control signal output terminal in deck mechanism.					
8	EJECT SOL	0	Eject Solenoid control signal output terminal in deck mechanism.					
9	MOTOR CONT	0	Determins rotation direction of motor in deck mechanism.					
10	O. MOTOR	0	Determins start and stop of motor in deck mechanism.					
11	FOR/REV	0	FOR/REV indicator output terminal.					
12	O. FAST	0	Gain control signal output terminal to MS IC.					
13	PACK IN	ī	Switch to detect cassette is installed into cassette holder or not.					
14	M.S.DET	1	Music ON/OFF switching signal input terminal.					
15								
16	GND	_	GND short.					
17								
18	AREA0							
19	AREA1	1	Initial setting input terminal.					
20	TP ALARM	0	ALARM signal output terminal (at TP OFF ALARM).					
21	NC	_	Open.					
22	PWR IC ON	0	Stand-by control signal output terminal to Power IC.					
23	POWER CONT	0	Power control signal output terminal to Audio line and lighting.					
24	A.MUTE	0	Audio mute signal output terminal.					
25								
26	NC	_	Open.					
27								
28	IN INT	ı	INT signal input terminal.					
29	CHG D-OUT	0	BUS line output terminal to CD changer.					
30	E.VOL. CLK	0	Serial clock data output terminal to Electrical Volume.					
31	E.VOL. DATA	0	Serial data output terminal for Electrical Volume.					
32	NC	_	Open.					
33	GND	_	GND short.					
34	NC		Open.					
35	DOLBY C	0	Dolby C NR ON/OFF signal output terminal.					
36	DOLBY B		Dolby B NR ON/OFF signal output terminal.					
37	LCD CE		CE signal output terminal to LCD Driver.					
			CE signal output terminal to DTS microcomputer (IC504).					

No.	Symbol	I/O	Terminal Description					
39	DTS START	0	Data sync signal output terminal to DTS microcomputer (IC504).					
40	NOSE POWER	0	Power control signal output terminal to Front panel.					
41	LED IND	0	Action indicator output terminal.					
42	LCD CLK	0	lock signal output terminal to LCD Driver.					
43	GRN/ORG	0	LLUMI Control signal output terminal.					
44	LCD DATA	0	Data output terminal to LCD Driver.					
45	LCD INH	0	INH signal output terminal to LCD Driver.					
46	DTS MUTE	ı	Audio mute signal input terminal from DTS microcomputer (IC504).					
47	ACC+5	ı	ACC power supply detection terminal.					
48	CHG D-IN	1	BUS line input terminal to CD changer.					
49	REMOCON	1	Data input terminal from Remocon receiver.					
50	DTS STATUS	1	Serial data input terminal from DTS microcomputer (IC504).					
51	DTS CMD	0	Serial data output terminal to DTS microcomputer (IC504).					
52	DTS SCK	0	Communication sync signal output terminal to DTS microcomputer (IC504).					
53	BATT+5V	1	BATT detector terminal.					
54	GND		GND short.					
55	GIVD		GIAD SHOIL					
56	NC	_	Open.					
57	GND	_	GND short.					
58	X1	ı	Input terminal for system clock OSC.					
59	X2	0	Output terminal for system clock OSC.					
60	RESET	1	System reset signal input terminal.					
61								
₹	GND	-	GND short.					
75								
76	PACK DOWN	l I	Switch to detect cassette holder is moved down completely.					
77	RUN DET	1	Signal showing take-up reel is roating or not.					
78	KEY-IN AD0							
79	KEY-IN AD1		KEY input terminal.					
80	KEY-IN AD2							

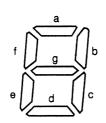
#### 75099W04: IC504

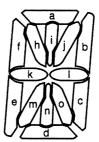
No.	Symbol	I/O	Terminal Description				
1	LW	0	V band selection terminal.				
2	LO/DX	0	ocal/DX control terminal.				
3	NC	_	pen.				
4	AV <sub>SS</sub>	_	ND potential terminal for A/D converter.				
5	LPF SW	0	PF time constant switching terminal at AF CHECK/SW.				
6	IF MUTE	0	Mute signal output terminal at AF check.				
7	AV <sub>REF1</sub>	1	Reference voltage input terminal for A/D Converter.				
8	PLL UP	_	Pull up terminal.				

No.	Symbol	1/0	Terminal Description					
9	NO		0000					
10	NC		Open.					
11	PLL CLK	0	Clock output terminal to PLL.					
12	PLL DATA	0	Data output terminal to PLL.					
13	PLL CE	0	Data communication control signal output terminal to PLL.					
14	DTS MUTE	0	Audio mute output terminal.					
15	DTS START	ı	DTS data start input terminal.					
16	DTS CMD	ı	Serial data input terminal from Main microcomputer (IC501).					
17	DTS STATUS	0	Serial data output terminal to Main microcomputer (IC501).					
18	DTS CLOCK	ı	Communication data sync signal input terminal form Main microcomputer (IC501).					
19								
7	NC	_	Open.					
32								
33	V <sub>SS</sub>		GND potential terminal.					
34								
}	NC		Open.					
57								
58	FM/AM	0	FM/AM power control terminal.					
59	AUDIO IN	١	Audio xerox input terminal.					
60	RESET	ı	System reset input terminal.					
61	RDS CLK	ı	RDS clock input terminal.					
62	RDS DATA	ı	RDS data input terminal.					
63	DTS CE	I	Terminal to make Main microcomputer (IC501) in stand-by status.					
64								
}	NC	_	Open.					
66								
67	50K REF	0	L.P.F. swithing output terminal at RDS mode.					
68	V <sub>DD</sub>	_	Positive power supply terminal.					
69	X2	0	Output terminal for system clock OSC.					
70	X1	ı	Input terminal for system clock OSC.					
71	V <sub>SS</sub>	_	GND short.					
72	NC		Open.					
73	PLL D-IN	1	Data input terminal from PLL					
74	AV <sub>DD</sub>		Analog power supply terminal for A/D converter.					
75	AV <sub>REF0</sub>	ı	Reference voltage input terminal for A/D converter.					
76	S.METER	ı	Signal meter input terminal.					
77	ADJ-ON	ı	Port detects adjoining rejection interference of station.					
78	MULTI PATH	1	Port detects multi path interference of station.					
79	ST	1	ST signal input terminal.					
80	SD I Station detector signal input terminal for FM/AM (MW/LW).							

# **LCD Display**

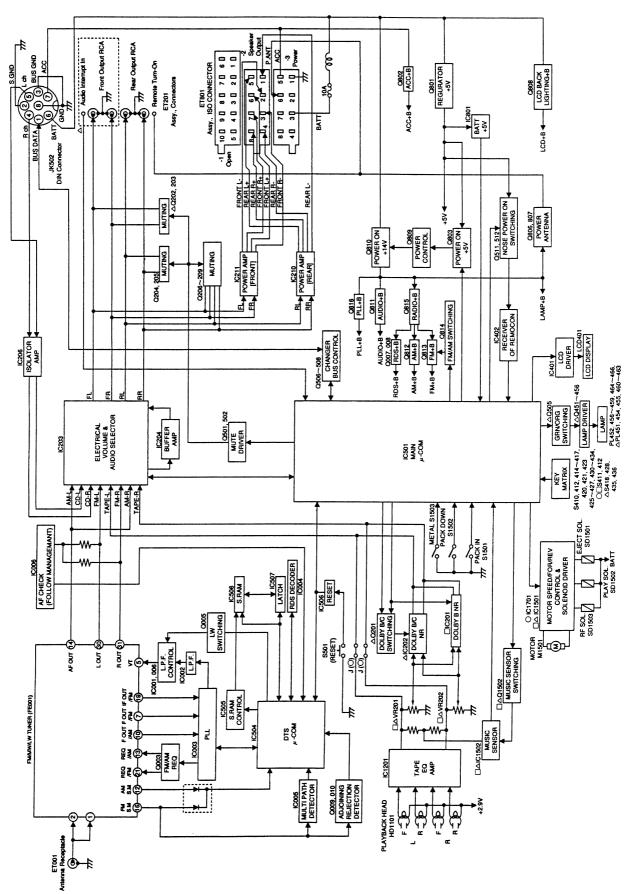




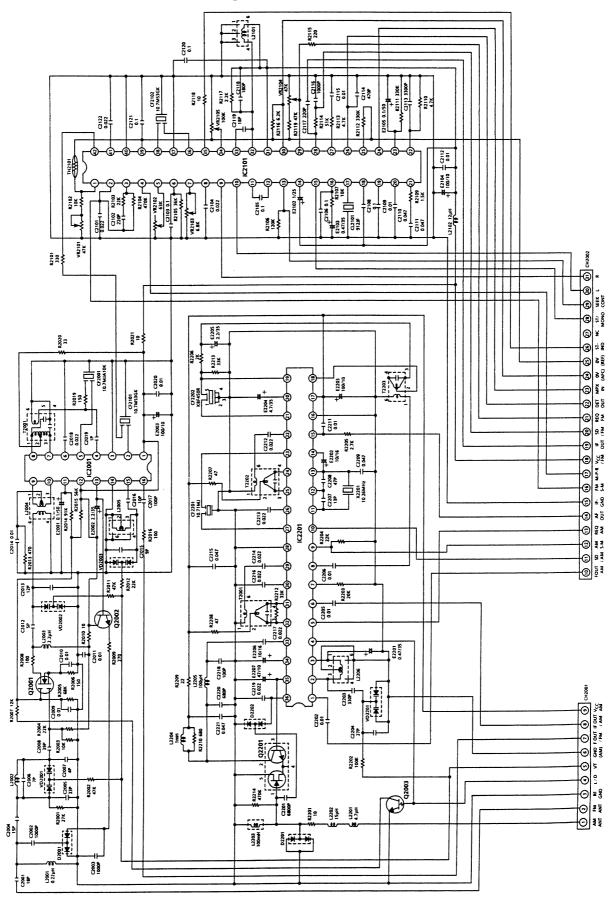


PIN No.	COM1	COM2	сомз	PIN No.	COM1	COM2	СОМЗ
1				39			СОМЗ
2				40		COM2	
3	1-h	1-k	1-m	41	COM1		
4	1-j	1-1	1-0	42	010	ST	LOUD
5	2-j	2-l	2-c	43	DX	B.SKIP	MO
6	3-1	3-g	3-е	44	11-b	11-c	11-d
7				45	11-j	11-1	11-o
8				46	11-a	11-i, 11-n	11-m
9				47	11-h	11-k	11-e
10				48	DEFEAT	11-1	10-c
11				49	10-j	10-i, 10-n	10-d
12				50	10-f	10-k	10-е
13				51	,		•
14	5-b	5-1	5-0	52	9-a	9-b	9-c
15	6-h	6-k	6-е	53	9-f	9-k	9-m
16	6-a	6-i, 6-n	6-m	54	ППС	8-b	9-e
17	7-1	7-e	6-d	55	8-h	8-k	8-m
18	7-h	7-k	7-m	56	DDB	7-b	7-c
19	7-j	7-1	7-0	57	7-a	7-i, 7-n	7-d
20	8-1	8 <del>-e</del>	8-d	58	ALL	6-b	6-c
21				59	6-j	6-i	6-0
22				60	RPT	6-f	5-c
23	8-a	8-i, 8-n	8-0	61	5-j	5-i, 5-n	5-d
24	8-j	8-1	8-c	62	5-a	5-h	5-m
25	9-h	9-i, 9-n	9-d	63	5-f	5-k	5-е
26	9-j	9-1	9-0	64	TP	4-b	4-c
27	10-a	10-h	10-m	65	4-j	4-1	4-0
28	10-b	10-1	10-0	66	4-a	4-i, 4-n	4-d
29				67	4-h	4-k	4-m
30				68	4-1	3-b	4-0
31				69	M.I.X.	3-a, 3-d	3-c
32				70	T.INFO	2-b	1
33				71	2-a	2-i, 2-n	2-0
34				72	2-h	2-k	2-m
35				73	2-1	2-0	2-d
36				74	PTY	1-b	1-c
37				75	1-a	1-i, 1-n	1-d
38				76	RDS	1-f	1-0

# **Block Diagram**



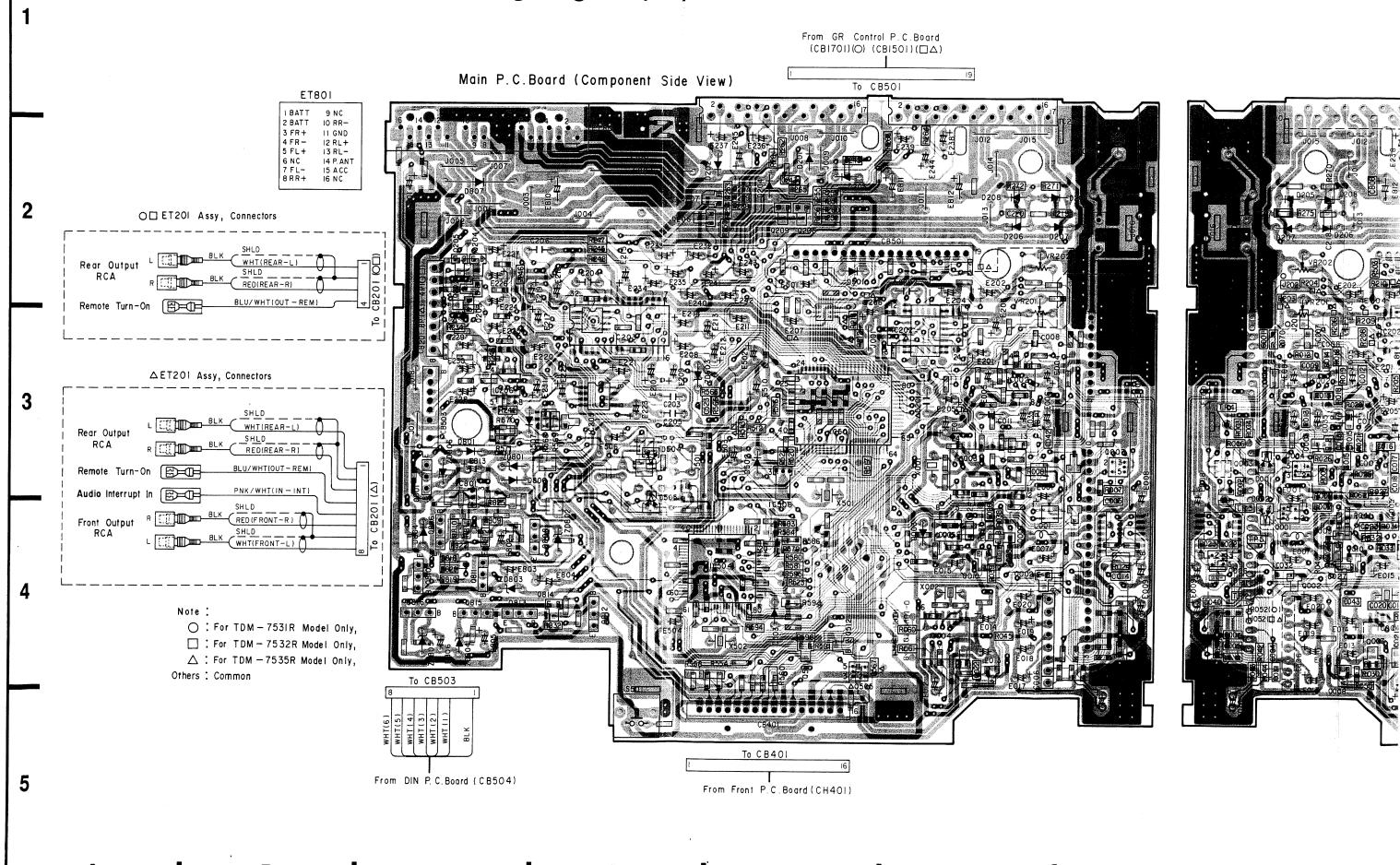
# **Tuner Schematic Diagram**



# **MEMO**

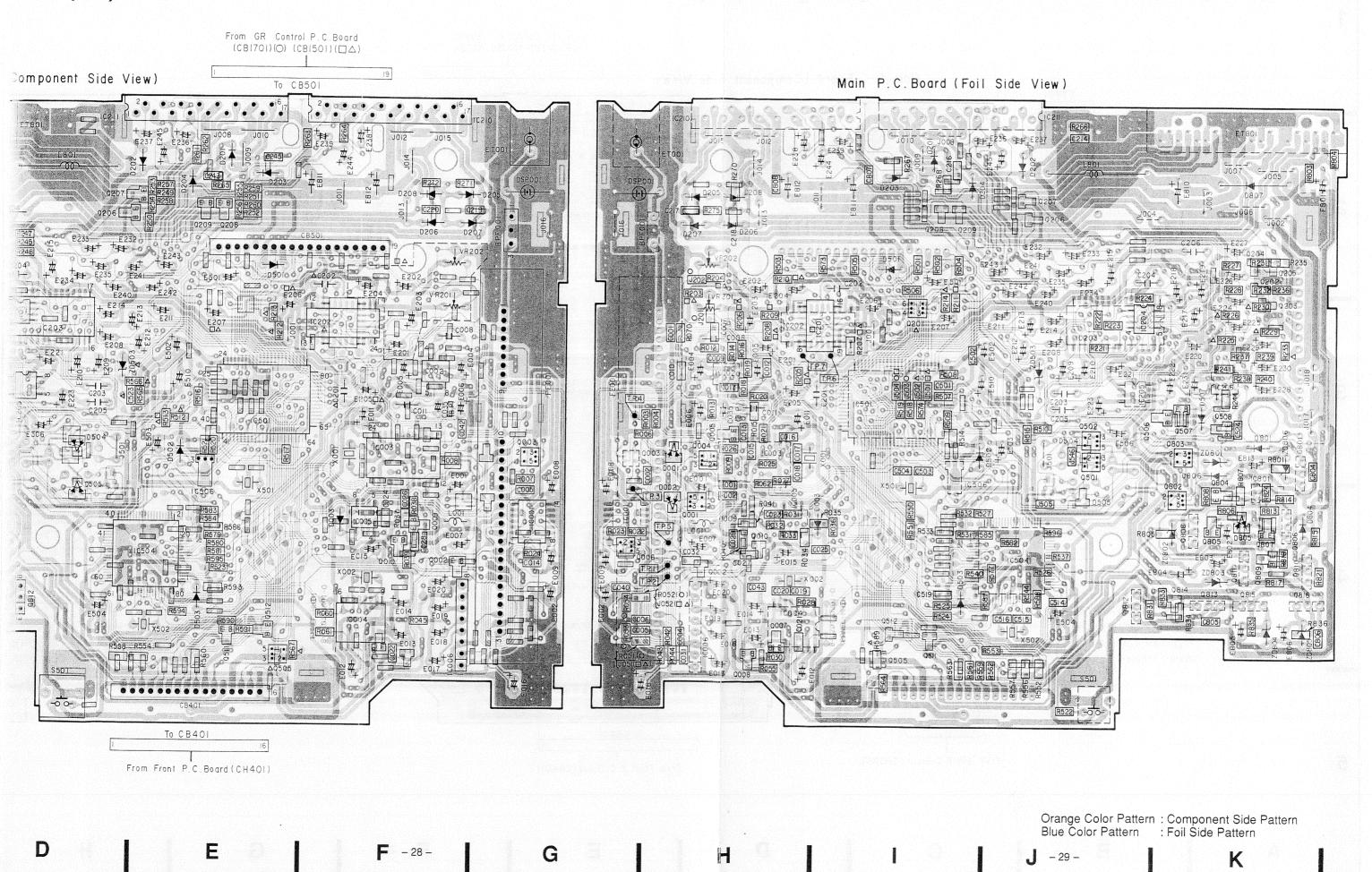
# Parts Layout on P.C. Boards and Wiring Diagram (1/2) From GR Control P.C.Board (CBI701)(○) (CBI501)(□△) Main P.C. Board (Component Side View) ET801 11 GND 12 RL+ 13 RL-14 P. ANT 15 ACC 16 NC ○□ ET201 Assy, Connectors Rear Output Remote Turn-On △ET201 Assy, Connectors Rear Output Front Output RCA From DIN P. C. Board (CB504) From Front P.C.Board (CH401)

# Parts Layout on P.C. Boards and Wiring Diagram (1/2)

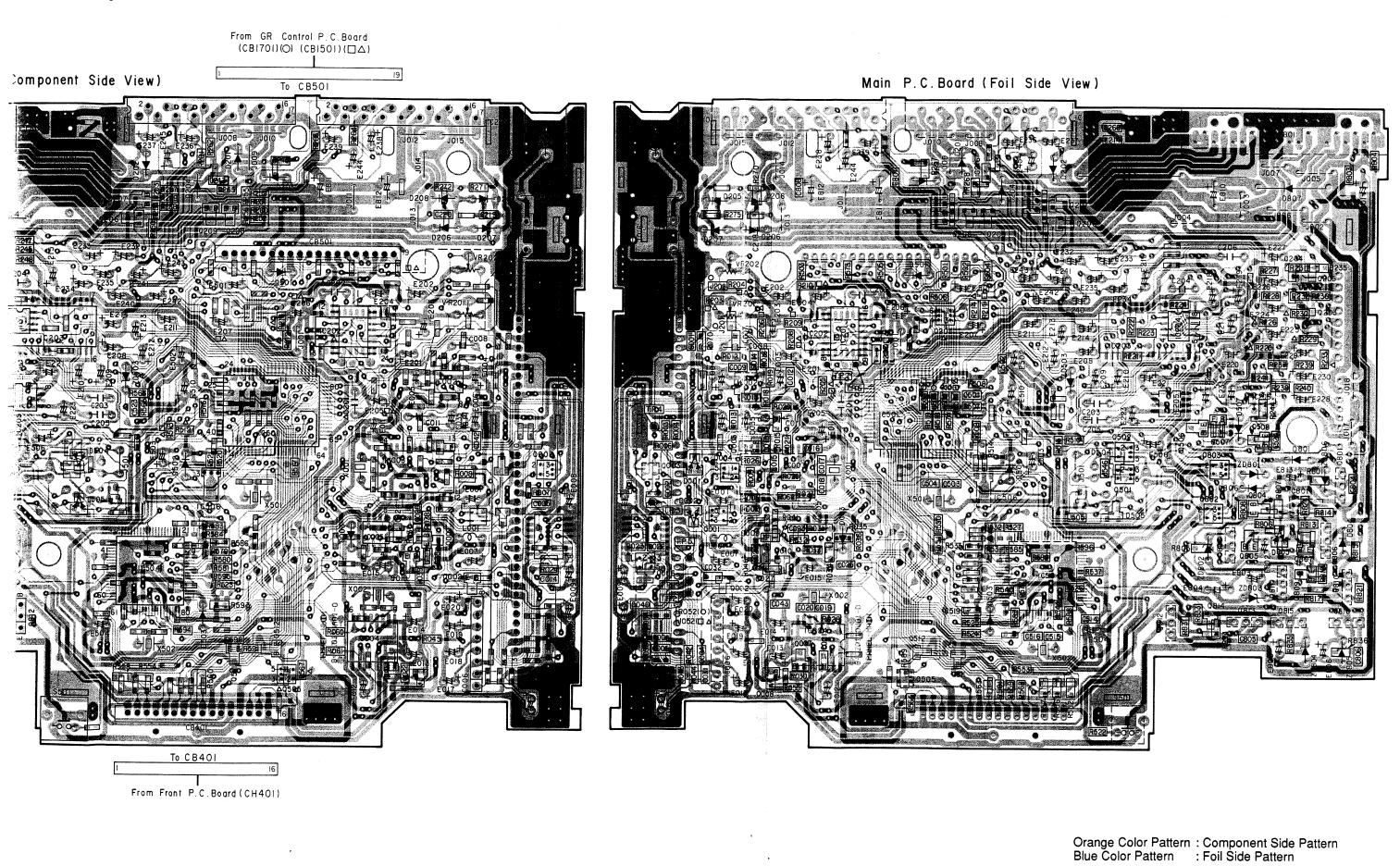


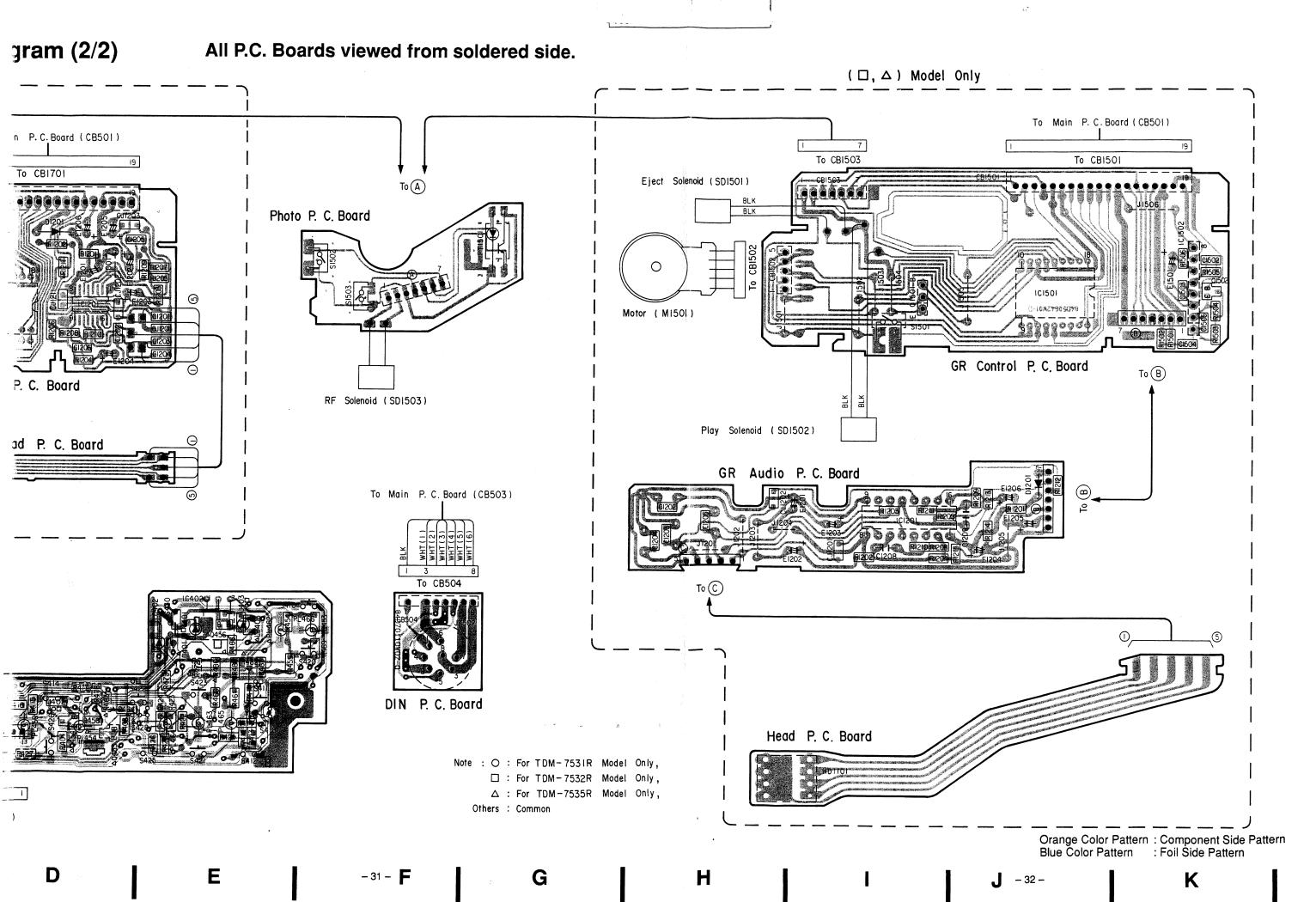
H

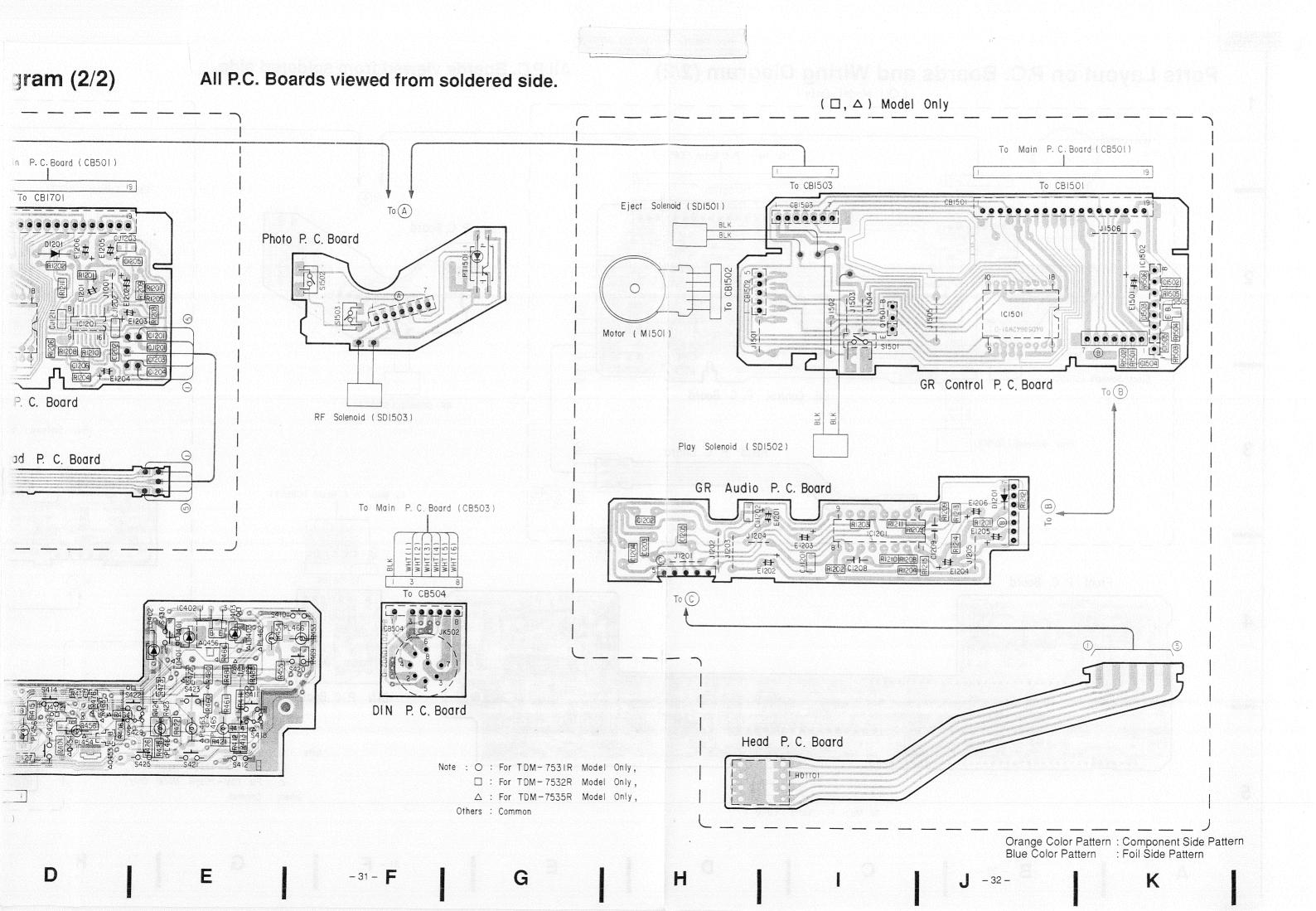
# ram (1/2)

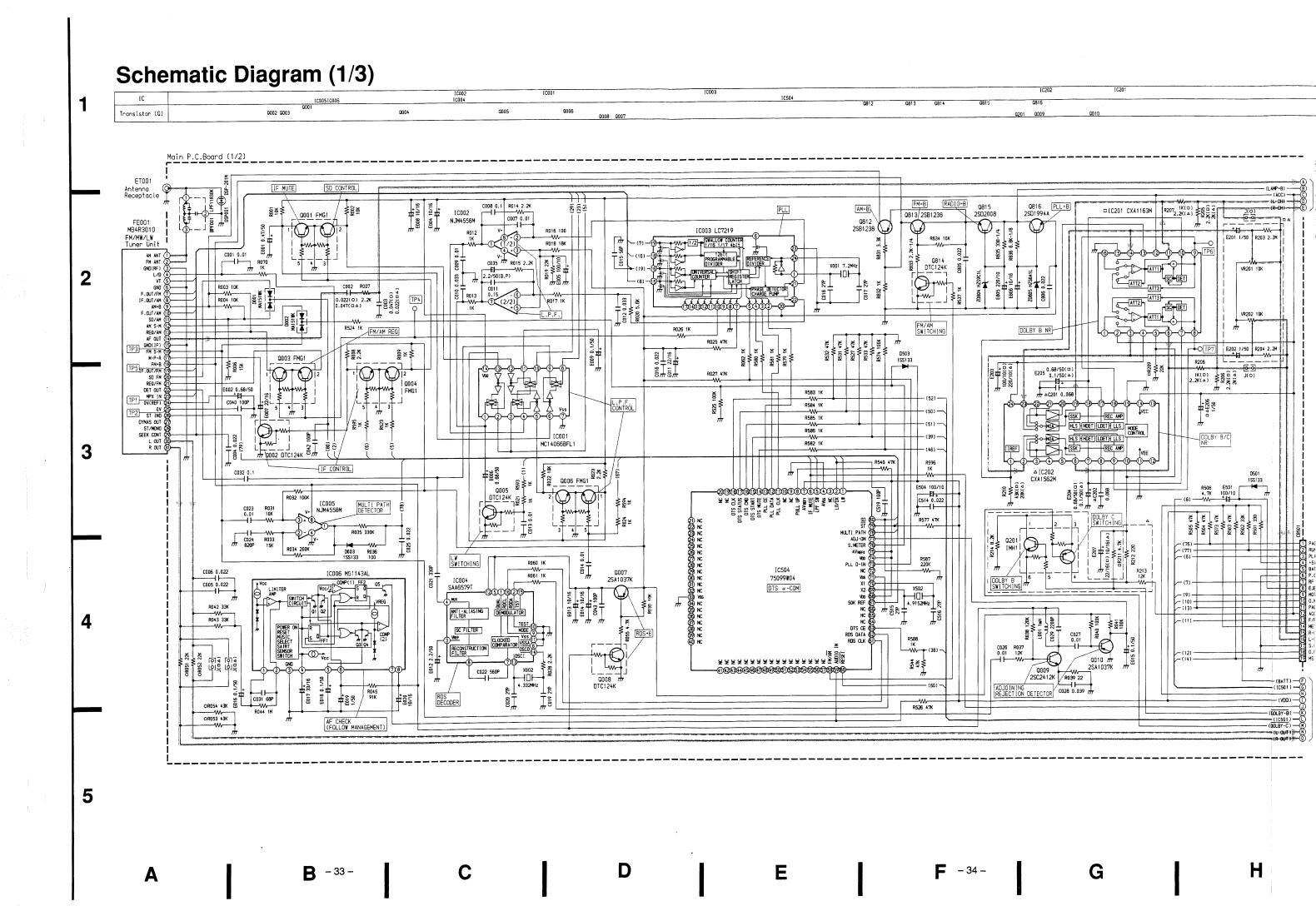


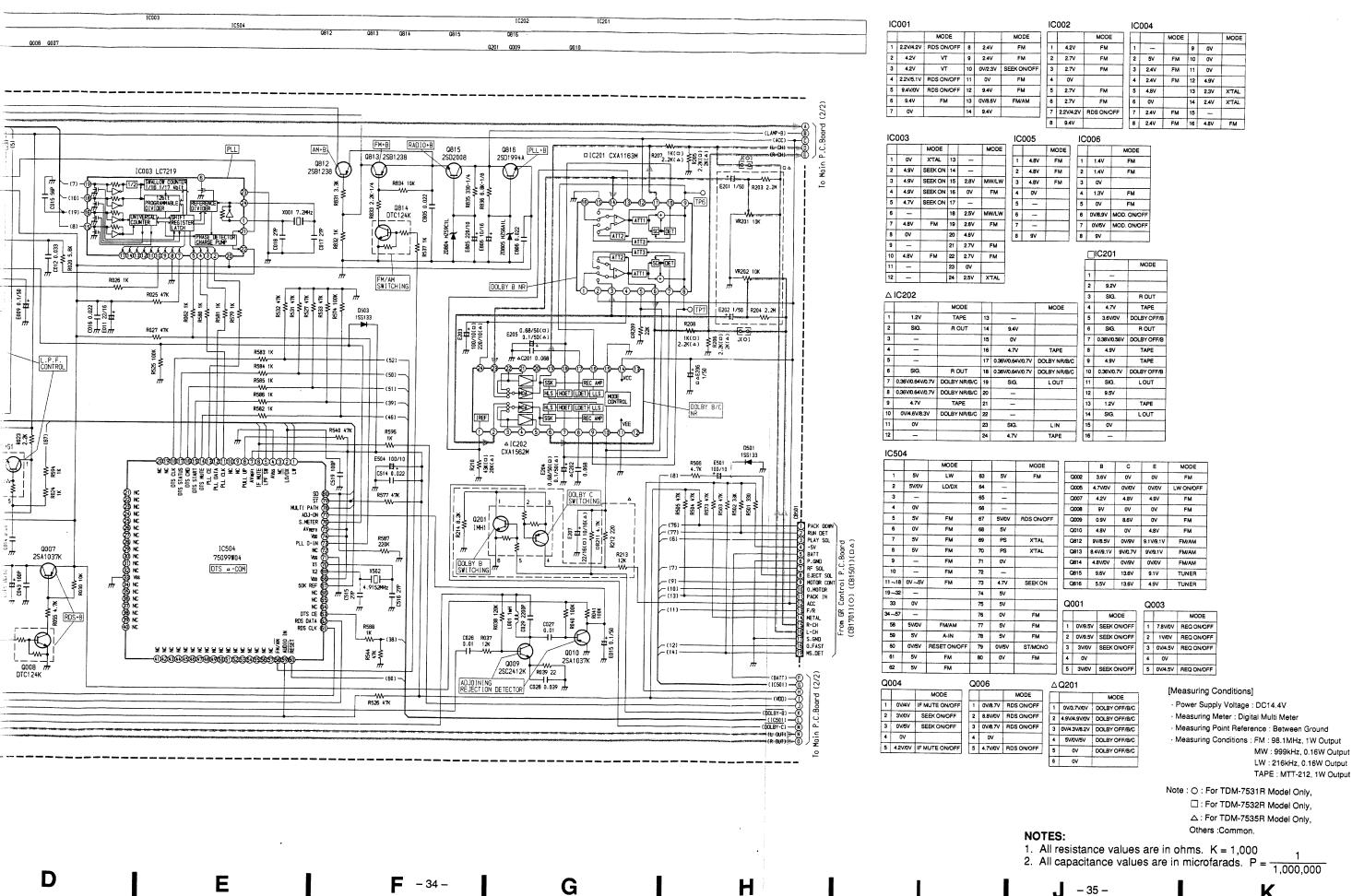
# ram (1/2)





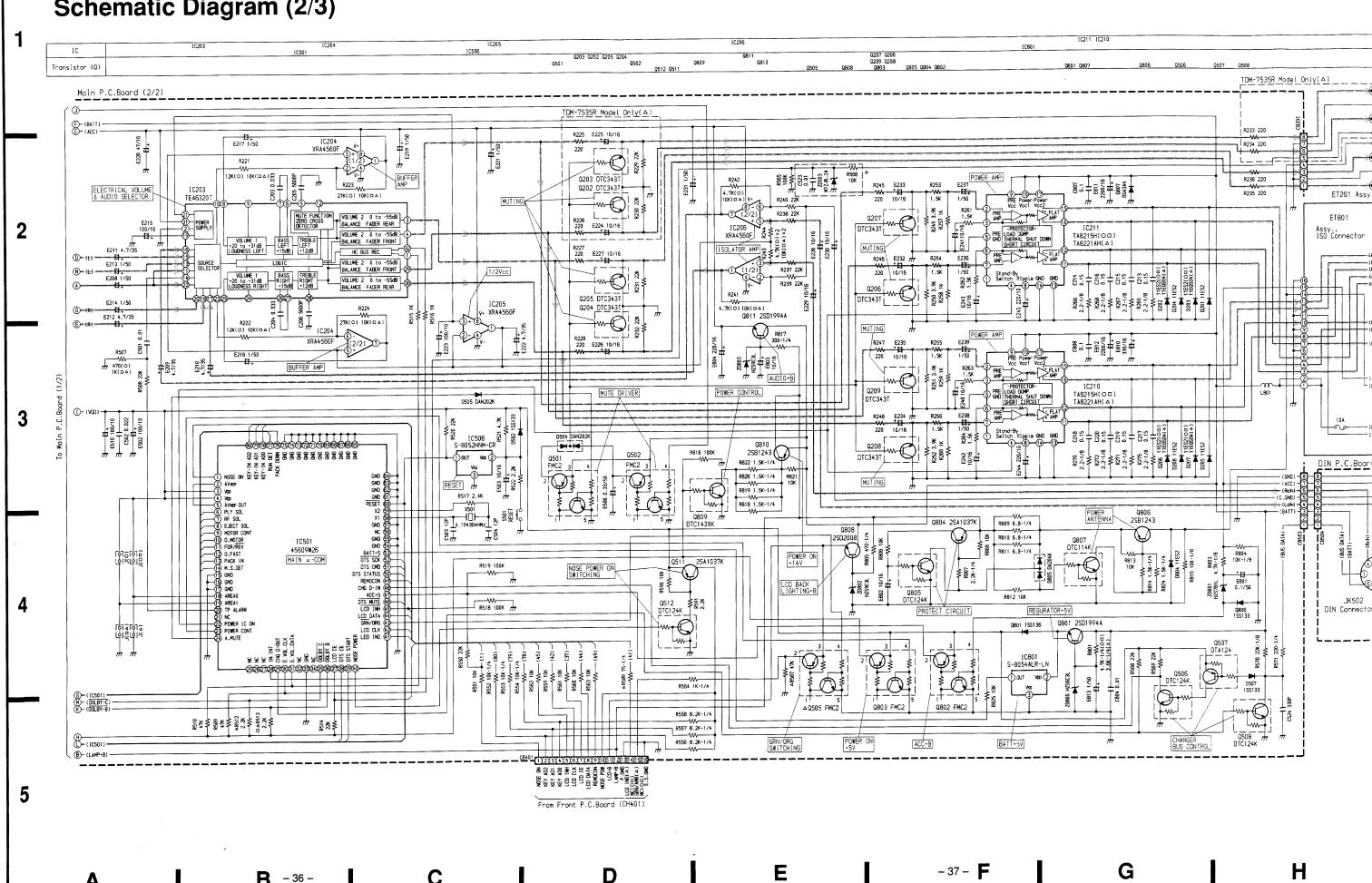


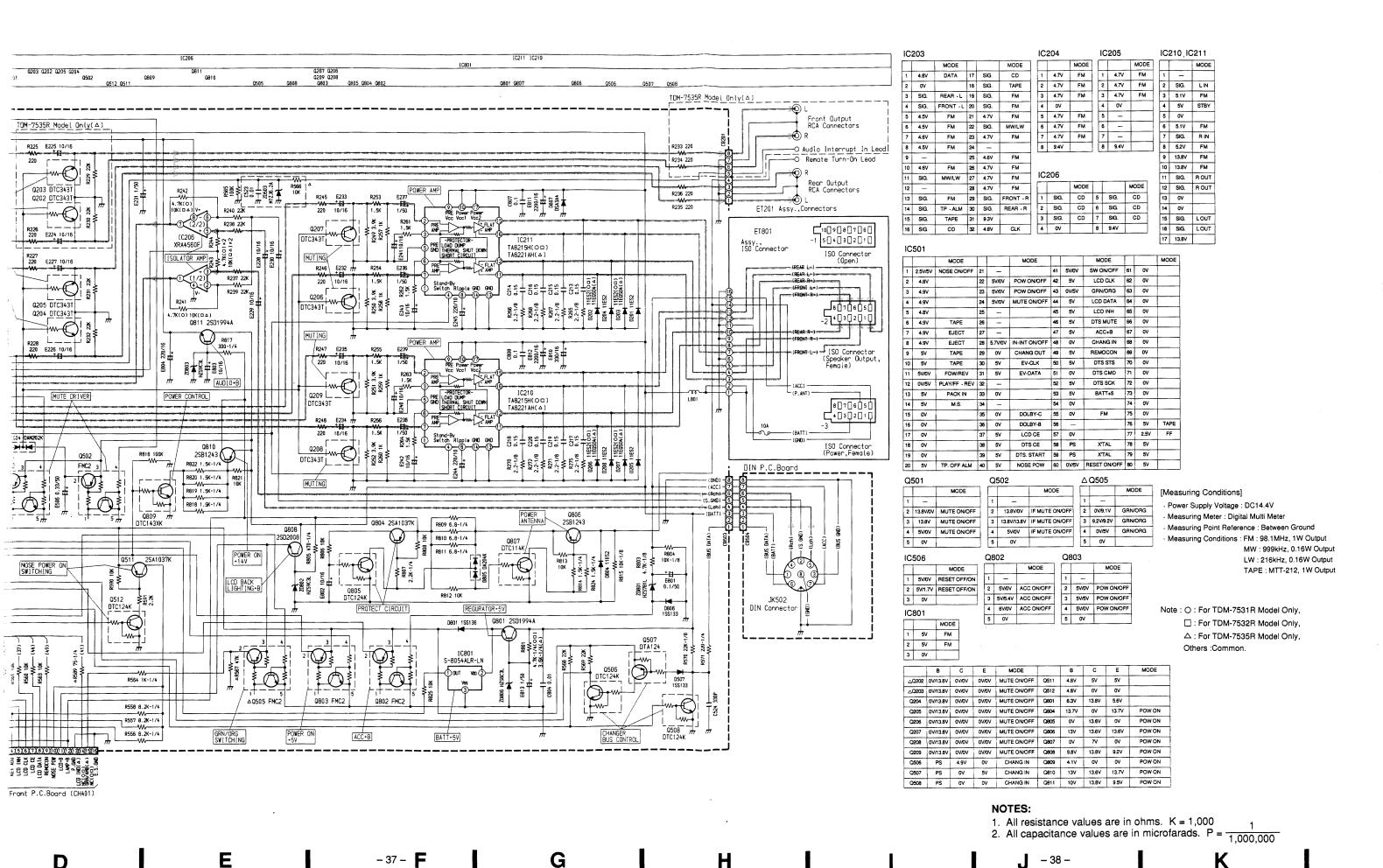


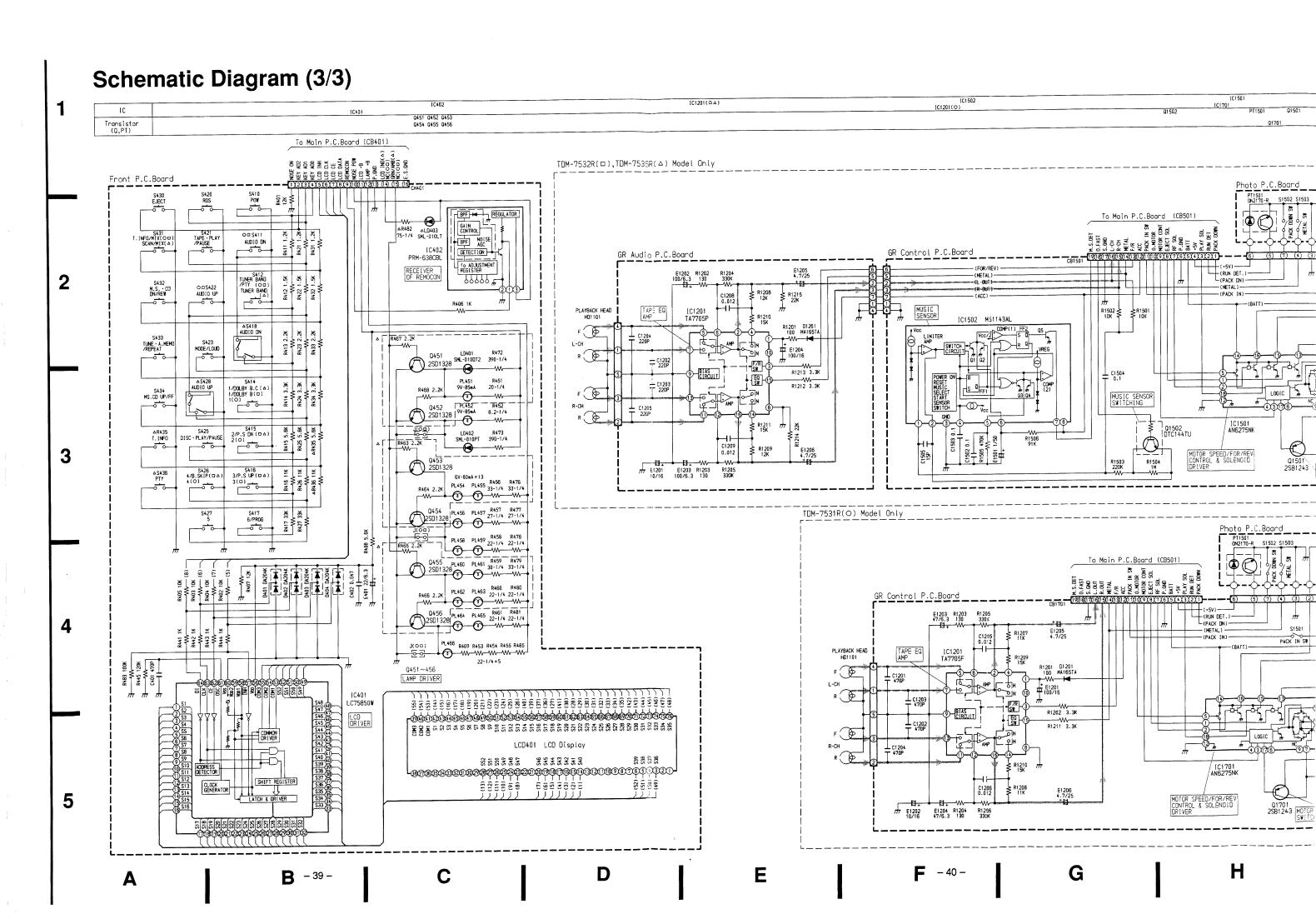


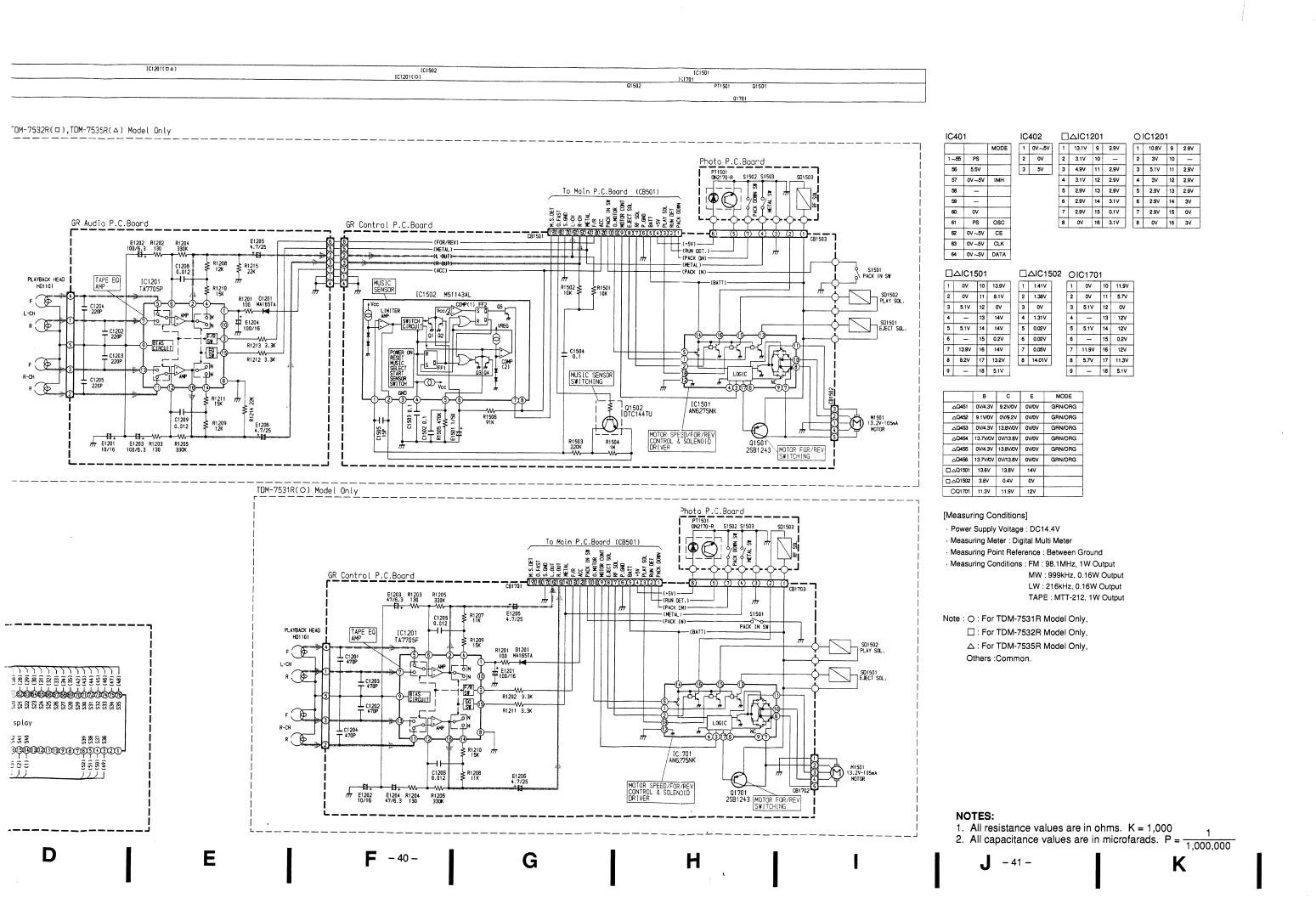
K

# Schematic Diagram (2/3)









# **Electrical Parts List**

Resistor: Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor: µF=microfarads, pF=picofarads

	RES.=	Abb Resistor	oreviations CAP.=	Capacitor	S	ymbol No.	Part No.	Description
TR	C.F. = M.F. = M.O. = M.P. = TR. = RANS. =	Carbon Film Metal Film Metal Oxide Fi Metal Plate Transistor Transformer	CAP. =	Electrolytic Ceramic Mylar Tantalum Polystyrol Polypropylene	Δ	Q007 Q008 Q009 Q010 Q201	48T62967F03 48T63417F01 48T63420F01	CP., 2SA1037K CP., DTC124K CP., 2SC2412K CP., 2SA1037K CP., IMH1
	CP.=	Cnip	PF.=	Polyester Film	Δ	Q202 Q203		CP., DTC343T CP., DTC343T
S	ymbol No.	Part No.	Descri	ption		Q204 Q205	48T62967F33	CP., DTC343T CP., DTC343T
		Main	P. C. Board			Q206	48T62967F33	CP., DTC343T
	IC's					Q207 Q208	•	CP., DTC343T CP., DTC343T
	IC001	51T40941U03	MC14066BFL1			Q209	7	CP., DTC343T
ı		51T93336F01	NJM4558M	1	1	1 '	48T73888F12	CP., FMC2
		51T35504W02	1				48T73888F12	CP., FMC2
		51T55054W02						
1		51T93336F01	NJM4558M		Δ	Q505	48T73888F12	CP., FMC2
1	ĺ				1	Q506	48T62967F03	CP., DTC124K
1	IC006	51T67915F01	M51143AL		1	Q507	48T62966F03	CP., DTA124
	IC201	51T16466W02	CXA1163M		1	Q508	48T62967F03	CP., DTC124K
Δ	IC202	51T65314W01	CXA1562M			Q511	48T63420F01	CP., 2SA1037K
1	IC203	51T65131W01	TEA6320T		I			
	IC204	51T92001F21	XRA4560F					CP., DTC124K
1			,		1	Q801	48T93828F04	2SD1994A
1		1	XRA4560F		1		48T73888F12	CP., FMC2
		51T92001F21	XRA4560F			, ,	48T73888F12	CP., FMC2
0		51T35133W02				Q804	48T63420F01	CP., 2SA1037K
0	or	51T65310W01			į			
		51T35133W02	•		I	Q805	48T62967F03	CP., DTC124K
	or	51T65310W01	MC13309T3		ı		48T84366F01	2SB1243
١.				1	l	Q807	48T62967F02	CP., DTC114K
Δ		51T25614W11			l	Q808		2SD2008
0	i i	51T35133W02		į		Q809	48T62967F05	CP., DTC143XK
0	or	51T65310W01		[	I	0010	40T04366E04	25B1243
		51T35133W02 51T65310W01		i	1	Q810	48T84366F01 48T93828F04	25B1245 2SD1994A
<u> </u>	or	311033109701	INIC 1220312		1		48193828F04 48T84234F03	2SB1238
Δ	10211	51T25614W11	TA8221A4		1	1 '	48T84234F03	25B1238
44		51T45609W26		1	1	1 `	48T62967F03	CP., DTC124K
		51T75099W04			1	2014	-0102507103	
		51T95014F13	S-8052HNM-CR	İ	1	0815	48T15289W03	2SD2008
	, , , , , , , ,	J 1 1 2 2 0 1 7 1 1 3	2 OUSEI HAIAI-CIV		1		48T93828F04	2SD1994A
	IC801	51T95014F09	S-8054ALR-LN					
Г	Trans	sistors				Diod	es / Surge Pro	otector
	Q001	48T73888F08	CP., FMG1		T	D001	48T52446F01	CP., MA151WK
		48T62967F03	CP., DTC124K	I		:	48T52446F01	CP., MA151WK
	<b>~</b> · · · -	48T73888F08	CP., FMG1	j				155133
		48T73888F08	CP., FMG1	i	l		48T84052F11	11ES2
	'	48T62967F03	CP., DTC124K	į	0		48T84052F11	11ES2
	Q006	48T73888F08	CP., FMG1			D202	48T84052F11	11ES2
				only D: For				· · · · · · · · · · · · · · · · · · ·

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only,

Δ: For TDM-7535R Model only, Others : Common.

<b>-</b>	symbol No.	Part No.	Description	5	ymbol No.	Part No.		Description
	D202	48T55247W02		╟╴	Cap	<u> </u>	<u> </u>	
0	D203	48T84052F11	11ES2	II—	<del>,                                    </del>			
	D203	48T84052F11	11ES2	Ш	C001	08S65128F69	CP.,	0.01µF
Δ	D203	48T55247W02	11EQS04	Н	E001	23\$75372W13	ELY.,	0.47µF / 50
	D204	48T84052F11	11ES2		C002	08T15399W01	CP.,	0.022µF
					C002	08T15399W03	CP.,	0.047µF
ı	D205	48T84052F11	11ES2	Δ	C002	08T15399W03		0.047µF
0	D206	48T84052F11	11ES2	$\Pi^{-}$			,	υ.υ Ψ. μ.
	D206	48T84052F11	11ES2		E002	23S75372W14	ELY.,	0.68µF / 50
	D206	48T55247W02		0	C003	08T15399W03	CP.,	
	D200	48T84052F11	11ES2	$\coprod$			CP.,	0.047µF
$\sim$	0207	40104032711	11632		C003	08T15399W01	CP.,	0.022μF
<u> </u> _			4488	Δ	C003	08T15399W01	CP.,	
	D207	48T84052F11	11ES2	Ш	C004	08T15399W01	CP.,	0.022µF
Δ	D207	48T55247W02		П	İ		I	
1	D208	48T84052F11	11ES2		E004	23S75372W04		10μF / 16V
ĺ	D501	48T68828F11	155133	H	C005	08T15399W01	CP	0.022uF
	D502	48T68828F11	155133		E005	23S75372W02	ELY	100uF / 10V
1	1			H	C006	08T15399W01	CP.,	100μF / 10V 0.022μF
1	D503	48T68828F11	155133	li	E006	23S75372W14	ELY.,	0.68µF / 50
	D504	48T63462F01	CP., DAN202K	П	-000		' -,	σ.σσμι / σσ
	D505	48T63462F01	CP., DAN202K	Ħ	C007	08565128F69	CD	0.045
			1 '	H		E .	CP.,	0.01µF
	D507	48T68828F11	155133		E007	23\$75372W05	LLY.,	22μF / 16V
	D801	48T70933F11	1SS136		C008	08T35122W13	PF.,	0.1µF
	ĺ				E008	23\$75372W04	ELY.,	10µF / 16V
	D804	48T84052F11	11ES2		C009	08S65128F69	CP.,	0.01μF
	D805	48T64134F01	CP., DA204K	1	•	ļ		ŕ
	D806	48T68828F11	155133		E009	23\$75372W10	ELY	0.1µF / 50V
	D807	48T68580F03	DSA3A4		C010	08T15399W02	CP.,	0.033µF
Δ	ZD503	48T45012W29			C011	08T35122W15	PF	0.15uE
- 1			201101, 1111230,27		E011	23575372W05	ELY.,	2205/161/
	ZD801	48T25766W13	Zener, HZS7B1L		C012	08T15399W02	CD	
	ZD802		l '		C012	001133334402	CP.,	0.033µF
			Zener, HZS9C3L		F045			
1	ZD803		Zener, HZS9C3L		E012	23\$75372W16	ELY.,	2.2µF / 50V
	ZD804		Zener, HZS9C1L		C013	08S65128F69	CP.,	0.01µF
	ZD805	48T25766W01	Zener, HZS6A1L	1 1	E013	23\$75372W04	ELY.,	10μF / 16V
					C014	08S65128F69	CP.,	0.01µF 10µF / 16V 0.01µF
ľ	ZD806	48T25766W09	Zener, HZS6C3L		E014	23S75372W04	ELY.,	10µF / 16V
	DSP001	48T81909F01	DSP-201M				·	
					C015	08582122F31	CP.,	56pF
					E015	23575372W10		0.1µF / 50V
							CP.,	,
		<u> </u>			E016	23575372W10		0.022µF
	Crysta	als			C017			0.1µF / 50V
Ţ	X001	91T45118W43	7 2MU2		C017	08582122F23	CP.,	27pF
	X001 X002				F04-			
		91T45118W18			E017		ELY.,	33µF / 16V
	X501	91T45118W17			C018	08S82122F23	CP.,	27pF
P	X502	91T45118W27	4.9152MHz		E018	23575372W10	ELY.,	0.1µF / 50V
			Į.		C019	08S82122F23	CP.,	27pF
- [			į		E019		ELÝ.,	1µF / 50V
			l				•	,
	C:l+	/ Caile			C020	08S82122F23	CP.,	27pF
	riiter	/ Coils	i i		E020		ELY.,	2/ρΓ 10μF / 16V
Īſ	BPF001	91T75257W01	Filter, LPF11830K		C021		CP.,	330pF
	L001		Inductor, 1mH		C022		CP.,	
	L801		Choke		C023			560pF
	-551	241730334403	CHOKE		CU23	08S65128F69	CP.,	0.01µF
			l		co3.	0055545555	<b>45</b>	1
			ł				CP.,	820pF
	1					t t	CP.,	0.022µF
	Switch	1			C026		CP.,	0.01µF
		<del></del>			C027	08S65128F69	CP.,	0.01µF
5	501	40T16096W03	Tact, SKHHLW (RESET)		C028	08S65128F81	CP.,	0.039µF
1	ı							<i>,</i>

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only,

Δ: For TDM-7535R Model only, Others : Common.

s	ymbol No.	Part No.		Description		s	ymbol No.	Part No.		Description
Г	C029	08\$65128F61	CP.,	2200pF		Δ	E225	23S75372W04	ELY.,	10µF / 16V
1	C031	08S65128F31	CP.,	68pF	ı	I	E226	23\$75372W04	ELY.,	10µF / 16V
ı	C032	08T15807W05	CP.,	0.1µF			E227	23S75372W04	ELY.,	10µF / 16V
ı	C035	23T82372F19	ELY., (			1	E228	23575372W04	ELY.,	10μF / 16V
1	C040	08S65128F35	CP.,	100pF			E229	23575372W04 23575372W04	ELY.,	10μF / 16V
į	C043	000000000000000000000000000000000000000		·	ı	l	1			•
	C042	08S65128F35 08S65128F35	CP.,	100pF	ı	l	E230	23575372W04	ELY.,	10µF / 16V
Δ	C201	1	CP.,	100pF	- 1	ı	E231	23575372W15	ELY.,	1µF / 50V
	E201	08T35122W11	CP.,	0.068µF	- 1	ı	E232	23\$75372W04	ELY.,	10μF / 16V
Δ	E201	23575372W15 23575372W15	ELY., ELY.,	1µF / 50V		l	E233 E234	23575372W04	ELY.,	10μF / 16V
l				1μF / 50V	ı		E234	23\$75372W04	ELY.,	10μF / 16V
Δ	C202	08T35122W11		0.068µF		l	E235	23S75372W04	ELY.,	10µF / 16V
	E202	23\$75372W15	ELY.,	1μF / 50V	- 1	l	E236	23T55405W15	ELY.,	1µF / 50V
Δ	E202	23S75372W15	1 '	1μF / 50V	- 1	ı	E237	23T55405W15	ELY.,	1µF / 50V
l	C203	08T35122W07	1 '	0.033µF	١.		E238	23T55405W15	ELY.,	1µF / 50V
	E203	23S75372W02	ELY.,	100µF / 10V	ı		E239	23T55405W15	ELY.,	1μF / 50V
Δ	E203	23\$75372W03	ELY.,	220μF / 10V			E240	23S75372W04	ELY.,	10μF / 16V
l	C204	08T35122W07	PF.,	0.033µF			E241	23575372W04	ELY.,	10µF / 16V
	E204	23S75372W14	ELY.,	0.68µF / 50V		l	E242	23\$75372W04	ELY.,	10μF / 16V
Δ	E204	23S75372W10	ELY.,	0.1μF / 50V		l	E243	23S75372W04	ELY.,	10μF / 16V
	C205	08T55390W14	PF.,	5600pF			E244	23T55378W01	ELY.,	220μF / 10V
	E205	23S75372W14	ELY.,	0.68µF / 50V	- [,		E245	23T55378W01	ELY.,	220µF / 10V
Δ	E205	23S75372W10	ELY.,	0.1μF / 50V	l l		C501	08S65128F69	CP.,	0.01μF
	C206	08T55390W14	PF.,	5600pF	Ш		E501	23575372W02	ELY.,	100µF / 10V
	E206	23S75372W15	ELY.,	1μF / 50V	Ш		C502	08T15399W01	CP.,	0.022µF
Δ	E206	23575372W15	ELY.,	1µF / 50V			E502	23\$75372W02	ELY.,	100μF / 10V
	E207	23S75372W05	ELY.,	22μF / 16V	Ш		C503	08582122F15	CP.,	12pF
Δ	E207	23\$75372W04	ELY.,	10µF / 16V	H		E503	23\$75372W04	ELÝ.,	10μF / 16V
	E208	23\$75372W15	ELY.,	1μF / 50V	- 11		C504	08S82122F15	CP.,	12pF
	E209	23\$75372W09	ELY.,	4.7µF / 35V	Ш		E504	23\$75372W02	ELY.,	100µF / 10V
	E210	23\$75372W09	ELY.,	4.7µF / 35V			E506	23\$75372W12	ELY.,	0.33µF / 50
	E211	23575372W09	ELY.,	4.7µF / 35V			E510	23S75372W02	ELY.,	100μF / 10V
	E212	23\$75372W09	ELY.,	4.7µF / 35V			C514	08T15399W01	CP.,	0.022µF
	C213	08T65020W07	CP.,	0.15µF			C515	08S82122F23	CP.,	27pF
	E213	23\$75372W15	ELY.,	1μF / 50V	- 11		C516	08S82122F23	CP.,	27pF
	C214	08T65020W07	CP.,	0.15µF	Ш		C519	08S65128F35	CP.,	100pF
	E214	23\$75372W15	ELY.,	1µF / 50V		Δ	C523	08\$65128F69	CP.,	0.01µF
	C215	08T65020W07	CP.,	0.15µF		ļ	C524	08S65128F47	CP.,	330pF
l	E215	23\$75372W02	ELY.,	100µF / 10V	- []	ĺ	E801	23\$75372W10	ELY.,	0.1µF / 50V
	C216	08T65020W07	CP.,	0.15µF		l	E802	23S75372W04	ELY.,	10µF / 16V
	C217	08T65020W07	CP.,	0.15µF			E803	23\$75372W04	ELY.,	10µF / 16V
ł	E217	23\$75372W15	ELY.,	1µF / 50V			C804	08\$65128F69	CP.,	0.01µF
-	C218	08T65020W07	CP.,	0.15µF	11			23T00149L26	ELY.,	220µF / 16V
- 1	E218	23\$75372W15	ELY.,	1μF / 50V			C805	08T15399W01	CP.,	0.022µF
-	C219	08T65020W07	CP.,	0.15µF		-		1	ELY.,	220µF / 10V
	E219	23S75372W15	ELY.,	1μF / 50V			C806	08T15399W01	CP.,	0.022μF
	C220	08T65020W07	CP.,	0.15µF			E806	23\$75372W04	ELY.,	10µF / 16V
	E220	23\$75372W07	ELY.,	47µF / 16V	-	- [	C807	08\$53332F67	CP.,	0.1μF
-	E221	23\$75372W15	ELY.,	1μF / 50V			C808	08S53332F67	CP.,	0.1µF
	E222	23\$75372W09	ELY.,	4.7μF / 35V	Ш			23T00149L27	ELY.,	330µF / 16V
	E223	23S75372W02	ELY.,	100µF / 10V			E811	23T35505W12	ELY.,	2200µF / 16V
	E224	23S75372W04	ELY.,	10µF / 16V				23T35505W12 23S75372W15		2200µF / 16V

Notes: O: For TDM-7531R Model only, ∆: For TDM-7535R Model only, Others: Common.

			<del>;                                    </del>		_				
Sy	mbol No.	Part No.		Description	S)	mbol No.	Part No.		Description
	Resisto	ors (All resist	ors are c	hip 1/10W±5%	Ш	R070	06S64995F53	1	ohm
1		unless o	therwise	hip 1/10W $\pm$ 5% noted.)		R203	06564996F30	2.2M	
	I		Γ		Δ	R203	06S64996F30	2.2M	ohm
•	R001	06S64995F77	10K	ohm		R204	06S64996F30	2.2M	ohm
l	R002	06S64995F77	10K	ohm	Δ	R204	06S64996F30	2.2M	ohm
1	R003	06S64995F77	10K	ohm	П				
l	R004	06S64995F77	10K	ohm		R205	06S64995F61	2.2K	ohm
l	R006	06S64995F81	1	ohm	Δ	R205	06S64995F60	2K	ohm
	11000					R206	06S64995F61	2.2K	ohm
1	R007	06564995F61	2.2K	ohm	Δ	R206	06S64995F60	2K	ohm
	R008	06S64995F61		ohm		R207	06S64995F53	1 1K	ohm
	R009	06S64995F53		ohm	-				
	R012	06564995F53	1	ohm	Δ	R207	06S64995F61	2 2K	ohm
	R012	06564995F53		ohm		R208	06S64995F53		ohm
	KU13	00304995553	'`	Offin		R208	06564995F61	1	ohm
l	2014	06564005561	2 24	ahm.		R209	06S64995F85		ohm
1	R014	06S64995F61		ohm ohm		R210	06564995F92	i	ohm
1	R015	06564995F61				1210	00304333732	431	Olimi
	R016	06564995F29	i .	ohm	١,	2210	06564005584	204	ohm
	R017	06S64995F53	1	ohm	<u> </u>	R210	06S64995F84	1	ohm
	R018	06\$64995F83	18K	ohm		R211	06564995F69		
					Δ	R212	06S64995F37		ohm
1	R019	06S64995F85	1	ohm	Δ	R213	06S64995F79	i .	ohm
l	R020	06S64995F71	5.6K	ohm	Δ	R214	06S64995F75	8.2K	ohm
	R021	06S64995F53	1	ohm					_
	R022	06S64995F77	10K	ohm	0	R221	06S64995F79	1	ohm
ł	R023	06S64995F61	2.2K	ohm		R221	06S64995F77		ohm
			]		Δ	R221	06S64995F77		ohm
l	R024	06S64995F53	1K	ohm		R222	06S64995F79	12K	ohm
i	R025	06S64995F93	47K	oḥm		R222	06S64995F77	10K	ohm
1	R026	06S64995F53	1K	ohm					
	R027	06S64995F93	47K	ohm	Δ	R222	06S64995F77	10K	ohm
	R028	06S64995F61	2.2K	ohm		R223	06S64995F87	27K	ohm
						R223	06S64995F77	10K	ohm
i	R030	06S64995F77	10K	ohm	Δ	R223	06S64995F77	10K	ohm
l	R031	06S64995F77	10K	ohm	llo.	R224	06S64995F87	27K	ohm
1	R032	06S64996F02	100K						
•	R033	06S64995F81		ohm		R224	06S64995F77	10K	ohm
	R034	06S64996F09	200K		Δ	R224	06S64995F77	10K	ohm
	11054	00304330103		<b>5</b>	Δ	R225	06S64995F37	220	ohm
i .	R035	06S64996F14	330K	ohm	$\overline{\Delta}$	R226	06S64995F37	1	ohm
	R036	06564995F29		ohm	-	R227	06S64995F37	1	ohm
1	R037	06564995F79	l .	ohm		/			
	R038	06564996F04	120K		H	R228	06S64995F37	220	ohm
	R039	06564995F13		ohm	Δ	R229	06564995F85		ohm
1	1039	00304333713		5.mii	Δ	R230	06564995F85		ohm
1	B040	06564006503	1002	ohm	44	R231	06564995F85		ohm
	R040	06564996F02	100K 100K			R232	06564995F85		ohm
1	R041	06564996F02			Ш	N232	00304333703	221	Ollin
•	R042	06564995F89		ohm	,	R233	06564005527	220	ohm
	R043	06S64995F89		ohm	À	1	06564995F37		ohm
	R044	06S64996F26	11/1	ohm	Δ	R234	06564995F37	1	ohm
						R235	06S64995F37		
ا ۾ ا	R045	06S64996F01		ohm	II '	R236	06S64995F37	l	ohm ohm
0	R051	06S64995F85		ohm		R237	06S64995F85	228	ohm
Õ	R052	06S64995F85		ohm	H		00004005505	221/	ahm
Õ	R053	06S64995F92		ohm	l	R238	06564995F85		ohm
0	R054	06S64995F92	43K	ohm	I	R239	06\$64995F85	4	ohm
	_	· · · · · · · ·		,	_	R240	06564995F85	l .	ohm
1	R055	06S64995F69		ohm	2	R241	06564995F69	I .	ohm
	R060	06S64995F53		ohm		R241	06S64995F77	10K	ohm
1	R061	06S64995F53		ohm	۱.			400	-1
1	R062	06S64995F53	1K	ohm	Δ	R241	06S64995F77	10K	ohm
	<u> </u>				١Ц	L	<u> </u>	<u> </u>	

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, Others: Common.

Sy	mbol No.	Part No.		Description		Sy	/mbol No.	Part No.		Description
0	R242	06564995F69	176	ohm		$\overline{\Delta}$	R513	06S64995F61	2 2K	ohm
				ohm		1	R514	06S64995F85	1	ohm
	R242	06S64995F77				1	1	06564995F53	1	ohm
Δ	R242	06S64995F77		ohm		I	R515	I .		
0	R243	06S64995F69	1	ohm	ı	1	R516	06S64995F53		ohm
	R243	06S64995F77	10K	ohm	I		R517	06S64995F62	2.4K	ohm
	D242	06564005577	104	a h.m.	1	l	R518	06564996F02	100K	ohm
Δ	R243	06564995F77		ohm			R519	06564996F02		ohm
Ō	R244	06564995F69	1	ohm	ı	ı	1	1	1	
	R244	06S64995F77		ohm	1	1	R520	06564995F85	1	ohm
Δ	R244	06S64995F77	1	ohm	I	1	R521	06S64995F69		ohm
	R245	06S64995F37	220	ohm	1		R522	06S64995F61	2.2K	ohm
	R246	06S64995F37	220	ohm			R523	06S64995F53	1K	ohm
1	1		I .	ohm		•	R524	06564995F53	1	ohm
1	R247	06564995F37			-		R525	06564996F02		ohm
l	R248	06S64995F37	1	ohm					1	
l	R249	06\$64995F67		ohm	ı		R526	06564995F93	B .	ohm
	R250	06S64995F67	3.9K	ohm	ı		R527	06S64995F93	47K	ohm
	R251	06S64995F67	200	ohm			R531	06S64995F93	47K	ohm
	R252	06564995F67	1	ohm		1	R532	06564995F93		ohm
1		1	f	ohm	I	1	R533	06564995F93		ohm
l	R253	06564995F57	1		1	ı				
•	R254	06S64995F57	1	ohm	I	ı	R537	06S64995F53	1	oḥm
	R255	06S64995F57	1.5K	ohm			R540	06564995F93	4/K	ohm
	R256	06S64995F57	156	ohm	i		R544	06S64995F93	A7K	ohm
	R257	06564995F53		ohm		l	R550	06564995F85	1	ohm
	1				- 1		1			ohm
İ	R258	06S64995F53		ohm	I		R551	06564995F77	4	
	R259	06S64995F53	1	ohm	l	ı	R552	06S70072F77		ohm 1/4W
•	R260	06S64995F53	1 K	ohm		l	R553	06S70072F77	10K	ohm 1/4W
l	R261	06S64995F57	1 5K	ohm	- 1	l	R554	06570072F77	10K	ohm 1/4W
ı	R262	06S64995F57	ł	ohm		1	R556	06S70072F75	l .	ohm 1/4W
ı	R263	06S64995F57		ohm			R557	06S70072F75	l	ohm 1/4W
1	R264	06564995F57		ohm			R558	06S70072F75		ohm 1/4W
		1		ohm 1/8W	1	1	R559	06564995F77	1	ohm
	R265	06S53331F40	2.2	OHH 170VV	- 1		1,223	00304333177	100	Offili
	R266	06S53331F40	2.2	ohm 1/8W	1		R560	06S64995F77	10K	ohm
	R267	06S53331F40		ohm 1/8W			R561	06S64995F77	1	ohm
	R268	06553331F40	2.2		ı		R562	06S64995F77		ohm
	R270	06S53331F40	2.2		l		R563	06S64995F77	ľ	ohm
	R271	06S53331F40		ohm 1/8W			R564	06S70072F53		ohm 1/4W
	12/1	00333331140	2.2	011111 1/044			11.304	003/00/2/33	I I K	011111 1/444
	R272	06S53331F40	2.2	ohm 1/8W	1		R565	06S64996F02	100K	ohm
	R275	06S53331F40	2.2	ohm 1/8W	- 1	Δ	R566	06S64995F77	10K	ohm
	R501	06S64995F41		ohm	1	Δ	R567	06564995F93		ohm
1	R502	06564995F89		ohm		-	R568	06S64995F85		ohm
	R503	06S64995F93		ohm	1		R569	06S64995F85		ohm
	,,,,,,									• • • • • • • • • • • • • • • • • • • •
	R504	06S64995F93	47K	ohm	I		R570	06S53330F85	22K	ohm 1/8W
	R505	06\$64995F93	47K	ohm			R571	06S70072F37	220	ohm 1/4W
	R506	06S64995F69	4.7K	ohm	1		R573	06S64995F93	47K	ohm
0	R507	06S64995F45	l .	ohm	ŀ		R574	06S64996F02	100K	
	R507	06S64995F53		ohm	1		R577	06564995F93		ohm
					]					
Δ	R507	06564995F53	1K	ohm			R579	06S64995F53	1K	ohm
	R508	06564995F85	22K	ohm	1		R580	06S64995F53	1K	ohm
	R509	06S64995F93	47K	ohm	]		R581	06S64995F53	1K	ohm
	R510	06S64995F93	47K	ohm			R582	06S64995F53	1K	ohm
Δ	R512	06S64995F61	2.2K	ohm			R583	06S64995F53	1K	ohm
_		0000000		. I			DE0:			į į
	R513	06S64995F61	2.2K	onm			R584	06S64995F53	1K	ohm

Notes: O: For TDM-7531R Model only,

∆: For TDM-7535R Model only,
Others: Common.

_							<del></del>	
S	ymbol No.	Part No.		Description	:	Symbol No.	Part No.	Description
	R585	06S64995F53	1K	ohm			Frant	D. C. Doord
l	R586	06S64995F53	4	ohm			FIOIL	P. C. Board
ı	R587	06S64996F10	1	ohm		IC's		,
ı	R588	06S64995F53	1K	ohm	11_			
Δ	R589	06S70072F26	75	ohm 1/4W		IC401 IC402	51T55492W01 51T55246W02	LC75850W RPM-638CBL
ı	R590	06S64995F77	10K	ohm	- !!			
ı	R591	06\$64995F61	2.2K	ohm	11			
ı	R593	06564995F53	i	ohm	11	T		<u> </u>
ı	R594	06S64995F53	1	ohm	- 11	ıran	sistors	
ı	R595	06S64995F53		ohm		Q451	48T63788F04	CP., 2SD1328
l					Δ	Q452	48T63788F04	CP., 2SD1328
	R596	06S64995F53		ohm	1	1	48T63788F04	CP., 2SD1328
	R801	06S70072F69		ohm 1/4W	4	,	48T63788F04	CP., 2SD1328
	R801	06S70072F69		ohm 1/4W	Δ	Q455	48T63788F04	CP., 2SD1328
Δ	R801	06S70072F66	1	ohm 1/4W				
	R803	06S53330F69	4.7K	ohm 1/8W		Q456	48T63788F04	CP., 2SD1328
1	R804	06S53330F77	1	ohm 1/8W	11			
	R805	06S70072F45	470	ohm 1/4W				
	R806	06S64995F77	10K	ohm	11	Dioc	les	
1	R807	06S70072F61	2.2K	ohm 1/4W	11_	7	<del></del>	
	R808	06S64995F77	10K	ohm	li li	D401	48T64134F01	CP., DA204K
					- 11	D402	48T64134F01	CP., DA204K
	R809	06S70072F03		ohm 1/4W	- 11	D403	48T64134F01	CP., DA204K
	R810	06S70072F03	1	ohm 1/4W	- 11	D404	48T64134F01	CP., DA204K
•	R811	06S70072F03	1	ohm 1/4W	- 11			
I	R812	06S64995F77		ohm	11	1	<u> </u>	
	R813	06S64995F77	10K	ohm .		LED'	S	
	R814	06\$70072F57	1.5K	ohm 1/4W		LD401	48T65477W01	CP., SML-010DT2(ORG)
l	R815	06S53330F77	10K	ohm 1/8W		LD402	1	1
	R816	06S64996F02	100K			1	48T65477W02	CP., SML-010LT(RED)
	R817	06S70072F40	1	ohm 1/4W	11-	123	1 401054771102	Cr., Sine Groen (NED)
	R818	06S70072F57		ohm 1/4W				
						Swite	ches	· · · · · · · · · · · · · · · · · · ·
	R819	06S70072F57		ohm 1/4W		JC 440		50 T . (KOLLA) (BOLL)
	R820	06S70072F57		ohm 1/4W	11_	S410		CP. Tact, SKQMAJ (POW)
ł	R821	06564995F77		ohm	112		40T55656W03	
	R822	06S70072F57		ohm 1/4W		5411	40T55656W03	
	R824	06S70072F57	1.5K	ohm 1/4W	l i	5412	40155656W03	CP. Tact, SKQMAJ (TUNER BAND / PTY)
	R825	06S64995F77	10K	ohm		5412	40T55656W03	CP. Tact, SKQMAJ
	R831	06S64995F65	3.3K	ohm		1		(TUNER BAND / PTY)
	R832	06S64995F53	1K	ohm	11			
	R833	06S70072F61	2.2K	ohm 1/4W	Δ	S412	40T55656W03	CP. Tact, SKQMAJ
	R834	06S64995F77	10K	ohm		5414	AUTERRECIAIOS	(TUNER / BAND)
	R835	06\$70072F41	חככ	ohm 1/4W		S414 S414	40T55656W03	CP. Tact, SKQMAJ (1)
	R836	06\$70072F41		ohm 1/8W		3	40T55656W03	CP. Tact, SKQMAJ (1 / DOLBY B)
	VR201	18T15356W13			4.1	S414	40T55656W03	CP. Tact, SKQMAJ (1 / DOLBY B·C)
	VR201	18T15356W13	Variable, Variable,		$11^{\circ}$	\$415	40T55656W03	CP. Tact, SKQMAJ (2)
	VR201	18T15356W13				S415	AOTEECESMOS	CD Test SECMAL (2 / D.S. DAN)
	V1202	101133304413	variable,	ION OTHER		1	40T55656W03	CP. Tact, SKQMAJ (2 / P.S DN)
,	VR202	19715256\4/12	Variable	10K ohm	$A \triangle$		40T55656W03	CP. Tact, SKQMAJ (2 / P.S DN)
4	V NZUZ	18T15356W13	Variable,	IOK OHIII		S416	40T55656W03	CP. Tact, SKQMAJ (3)
						S416	40T55656W03	CP. Tact, SKQMAJ (3 / P.S UP)
					$\prod^{\Delta}$	S416	40T55656W03	CP. Tact, SKQMAJ (3 / P.S UP)
					- 11	S417	40T55656W03	CP. Tact, SKQMAJ (6 / PROG)
					Δ	S418	40T55571W01	CP. Tact, SKQAXX(AUDIO DN)
			,		11	S420	40T55656W03	CP. Tact, SKQMAJ (RDS)

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, Others: Common.

Sy	ymbol No.	Part No.	Description	S	ymbol No.	Part No.		Description		
L	S421	40T55656W03	CP. Tact, SKQMAJ (TAPE · PLAY / PAUSE)		Resisto	sistors (All resistors are chip 1/10W±5% unless otherwise noted.)				
	5422	40T55656W03	CP. Tact, SKQMAJ (AUDIO UP)	Ι⊢	т —	T unless o	I I I I I I I I I I I I I I I I I I I	noted.)		
	5422	40T55656W03	CP. Tact, SKQMAJ (AUDIO UP)		R401	06S64995F79	12K	ohm		
	5423	40T55656W03	CP. Tact, SKQMAJ	11	R402	06\$64995F77	10K	ohm		
			(MODE / LOUD)		R403	06S64995F77	1	ohm		
ĺ	5425	40T55656W03	CP. Tact, SKQMAJ	Ш	R404	06S64995F77	1	ohm		
	3-12-3	101330301103	(DISC · PLAY / PAUSE)		R405	06S64995F77	1	ohm		
$\circ$	S426	40T55656W03	CP. Tact, SKQMAJ (4)		R406	06\$64995F53	1 K	ohm	ı	
_	\$426	1	CP. Tact, SKQMAJ (4 / B.SKIP)	П	R407	06S64995F79		ohm		
	5426		CP. Tact, SKQMAJ (4 / B.SKIP)	Ш	R408	06S64995F71	1	ohm		
_	5427	40T55656W03	CP. Tact, SKQMAJ (5)	Ш	R411	06S64995F55	1.2K	ohm		
Δ	S428	40T55571W01	CP. Tact, SKQAXX (AUDIO UP)		R412	06S64995F57		ohm		
	S430	40T55656W03	CP. Tact, SKQMAJ (EJECT)		R413	06S64995F61	2 2K	ohm		
$\circ$	5431	40T55656W03	CP. Tact, SKQMAJ (T.INFO / MIX)	П	R414	06S64995F65	I .	ohm		
-	5431	40T55656W03	CP. Tact, SKQMAJ (T.INFO / MIX)	П	R415	06S64995F71	t .	ohm	ı	
	5431	40T55656W03	CP. Tact, SKQMAJ (SCAN / MIX)	П	R416	06S64995F78	ſ	ohm		
<u> </u>	5432	40T55656W03	CP. Tact, SKOMAJ	II	R417	06S64995F89	ì	ohm		
	عربر	701330304403	(M.S CD·DN / REW)	П	``~''	00304393103	338	On the second		
				H	R421	06S64995F55	1.2K	ohm		
	S433	40T55656W03	CP. Tact, SKQMAJ	li	R422	06S64995F57	1.5K	ohm		
			(TUNE·A.MEMO / REPEAT)		R423	06S64995F61	2.2K	ohm		
	S434	40T55656W03	CP. Tact, SKQMAJ	l I	R424	06S64995F65	3.3K	ohm	ı	
			(M.S. CD·UP / FF)	H	R425	06S64995F71	5.6K	ohm		
	\$435	40T55656W03	CP. Tact, SKQMAJ (T.INFO)							
Δ	\$436	40T55656W03	CP. Tact, SKQMAJ (PTY)		R426	06S64995F78		ohm	- 1	
					R427	06S64995F89		ohm	- 1	
					R431	06S64995F55		ohm	- 1	
					R432	06S64995F57	[	ohm	1	
	1	<u> </u>			R433	06S64995F61	2.2K	ohm		
	Lamp	OS .			R434	06564995F65	3.3K	ohm		
	PL451	65T75231W02	9V-85mA	Δ	R435	06S64995F71	5.6K	ohm		
	PL452	65T75231W01	9V-85mA	Δ	R436	06S64995F78	11K	ohm		
Δ	PL454	65T75233W01	CP., 6V-80mA		R441	06S64995F53	1K	ohm		
	PL455	65T75233W01	CP., 6V-80mA		R442	06S64995F53	1K	ohm		
	PL456	65T75233W01	CP., 6V-80mA			000000000000000000000000000000000000000	<b></b>	. 1		
ĺ	DI 457	CETTED DIAME	CD		R443	06564995F53		ohm	ļ	
		65T75233W01			R444	06564995F53		ohm		
	PL458 PL459	65T75233W01 65T75233W01	CP., 6V-80mA	,	R445	06564996F04	120K			
		65175233W01	CP., 6V-80mA CP., 6V-80mA	Δ	R451	06570072F12		ohm 1/4W		
	PL460	65175233W01	CP., 6V-80mA		R452	06\$70072F04	8.2	ohm 1/4W		
			·		R453	06S70072F13		ohm 1/4W		
	PL462	65T75233W01	CP., 6V-80mA	1	R454	06S70072F13		ohm 1/4W		
1	PL463	65T75233W01	CP., 6V-80mA		R455	06S70072F13		ohm 1/4W	- 1	
	PL464	65T75233W01	CP., 6V-80mA	Δ	R456	06S70072F17		ohm 1/4W	1	
	PL465	65T75233W01	CP., 6V-80mA		R457	06S70072F15	27	ohm 1/4W		
	PL466	65T75233W01	CP., 6V-80mA		DAFO	06670073543		ahm 4/4/4/		
			1	,	R458	06\$70072F13		ohm 1/4W		
				Δ	R459	06\$70072F16		ohm 1/4W	ı	
	لـــــا	•.		Δ	R460 R461	06\$70072F13		ohm 1/4W		
	Capa	citors		Δ	R463	06570072F13 06564995F61		ohm 1/4W ohm		
	C401	08S82122F53	CP., 470pF							
	E401	23T25191W42	CP., ELY. 22µF / 6.3V	Δ	R464	06S64995F61	2.2K	ohm		
	C402	08T15399W03	CP., 0.047µF	Δ	R465	06S64995F61		ohm		
				Δ	R466	06S64995F61		ohm	1	
				Δ	R467	06S64995F61	2.2K	ohm		
	LI		4 7521D Model only 17. Fo			22P Madal a				

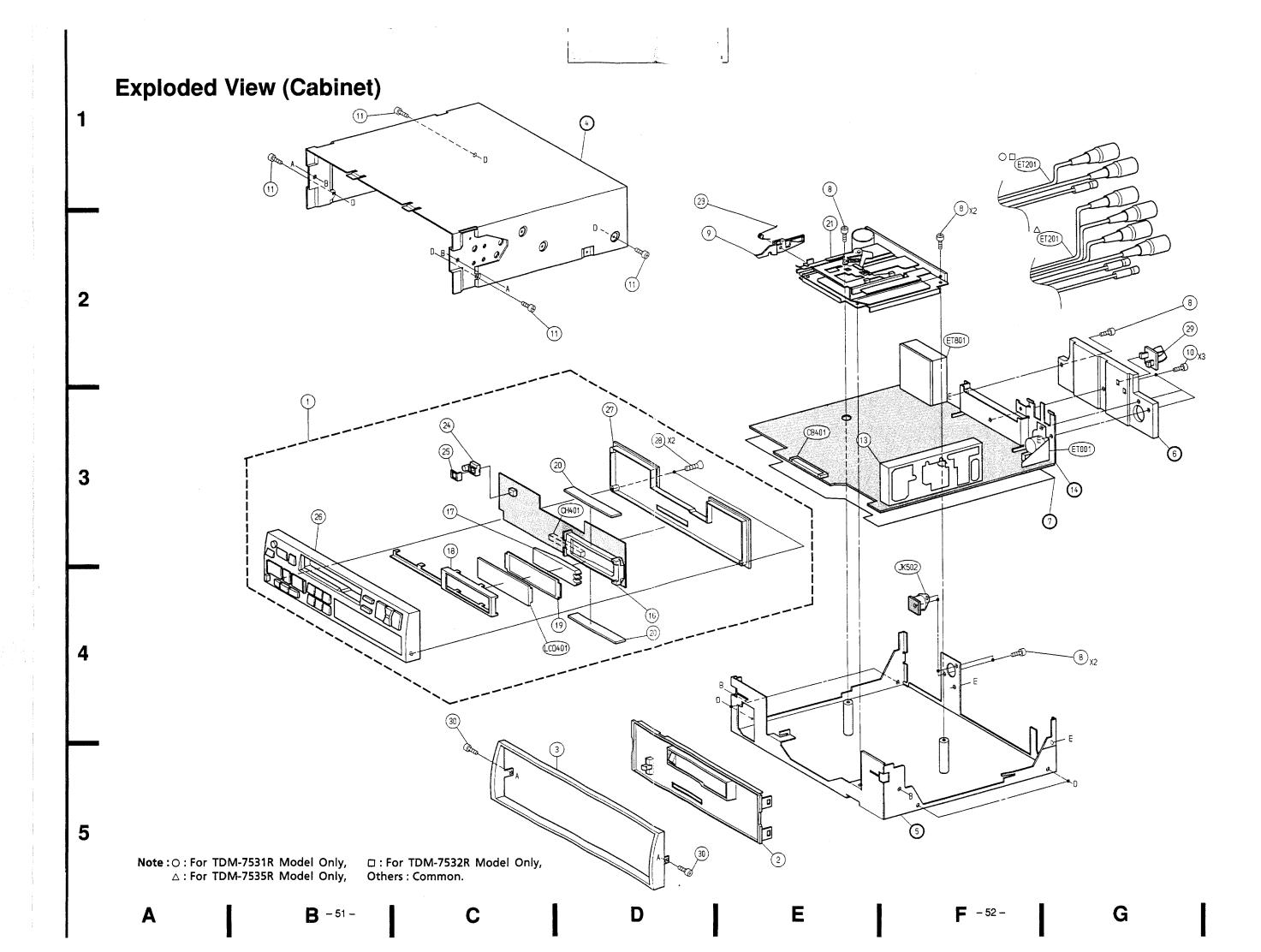
Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, ∆: For TDM-7535R Model only, Others: Common.

							· · · · · · · · · · · · · · · · · · ·	
Sy	mbol No.	Part No.		Description	Symbol No.	Part No.		ription
Δ	R468	06S64995F61	2.2K	ohm	E1206	23S61523F17		.7μF / 25V
	R469	06S70072F13	22	ohm 1/4W	or	23T55402W20	ELY., 4	.7μF / 25V
Δ	R472	06S70072F43		ohm 1/4W				
	R473	06S70072F43	390	ohm 1/4W				
Δ	R476	06S70072F17	33	ohm 1/4W				
		06670073515	27	ohm 1/4W				
	R477 R478	06S70072F15 06S70072F13		ohm 1/4W				
	R479	06570072F17		ohm 1/4W	Resisto	ors (All resist	ors are chip ierwise noted	1/8W±5%
-	R480	06570072F13		ohm 1/4W		unless oth	ierwise noted	.)
	R481	06S70072F13		ohm 1/4W	R1201	06S53330F29	100 ohm	
					R1202	06S53330F65	3.3K ohm	
Δ	R482	06S70072F26	75	ohm 1/4W	R1203	06S53330F32	130 ohm	
	R483	06S64996F02	100K	ohm	R1204	06S53330F32	130 ohm	
l	R485	06S70072F13	22	ohm 1/4W	R1205	06S64996F14	330K ohm	1/10W
1					R1206	06S64996F14	330K ohm	1/10W
ĺ					R1200	06564995F78	11K ohm	
					R1208	06S53330F78	11K ohm	
1					R1209	06S53330F81	15K ohm	
1					R1210	06S53330F81	15K ohm	
					R1211	06S53330F65	3.3K ohm	
		GR Conti	ral D	C Poord				
		J GR Conti	OI P.	C. Bualu			1	
Г	IC's							
-		51T64606F02	TA7705F					
	1 1	51T25621W02	AN6275Nk	•				
	101701	311230214402	ANOZIJINI	` .				
l				•				n 1
						∆ GR Con	trol P.C.	Board
		sistor / Diode				Transistors	LIC ANICOZENIK	
l		48T84366F05	2SB1243	A 4 CET A	IC1501	51T25621W02 51T67915F01	IC, AN6275NK	
ı	D1201	48T44813F01	Diode, M	A1651A	IC1502 Q1501	48T84366F05	2SB1243	
					Q1501 Q1502	48T94606F12	CP., DTC144TU	
					11302	40134003172		
H	Cana	citors						
$\vdash$			CB.	470pF	<b> </b>	<u> </u>		
l	C1201	08553332F31 23582482F02	CP., ELY.,	470pr 100µF / 16V	Capa	acitors		
	E1201 C1202	08S53332F31	CP.,	470pF	E1501	23S61524F32	ELY.,	1μF / 50V
1	E1202	23S61523F12	ELY.,	10µF / 16V	or	23T55521W34	ELY.,	1μF / 50V
1	or	23T55402W15	ELY.,	10μF / 16V	C1502	08T35374W01	CP.,	0.1μF
1	"	23133 <del>7</del> 024413	' .,	10p. / 101	C1503	08T35374W01	CP.,	0.1μF
	C1203	08553332F31	CP.,	470pF	C1504	08T35374W01	CP.,	0.1µF
	E1203	23S61523F07	ELY.,	47µF / 6.3V				
	or	23T55402W07	ELY.,	47µF / 6.3V	C1505	08S65128F15	CP.,	15pF
	C1204	08S53332F31	CP.,	470pF	H		1	
1	E1204	23S61523F07	ELY.,	47μF / 6.3V		1		
1	or	23T55402W07	ELY.,	47μF / 6.3V	Dariet	ore (All ===!=4	tors are ship	1/10\\/ + 504
1					Kesist	ors (All resist unless o	tors are chip therwise note	ed.)
	C1205	08553332F48	CP.,	0.012µF	DIENI		10K ohm	
1	E1205	23S61523F17	ELY.,	4.7µF / 25V	R1501 R1502	06S64995F77 06S64995F77	10K ohm	
	or	23T55402W20	ELY.,	4.7µF / 25V	R1502	06564996F10	220K ohm	
	C1206	08S53332F48	CP.,	0.012µF	R1503	06564996F26	1M ohm	
					''''			
	1				[ <u></u>			
						220 Madal a		

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, Others: Common.

Symbol No.	Part No.	Description		!	Symbol No.	Part No.	Description
R1505 R1506	06S64996F18 06S64996F01	470K ohm 91K ohm				Misc	ellaneous
				004	CB401 CB401 CB401 CH401	09T75038W14 09T75038W14 09T75038W16 09T75039W16	16Pin Connector 16Pin Connector 16Pin Connector 16Pin Connector
	- CD A	lia D. C. Daand			ET001	09T55211W01	Antenna Receptacle
	J∆ GK Aud Diode	dio P.C. Board		0	ET201	01T55244W05	Assy., Connectors (Rear Output RCA Connectors
IC1201 D1201	51T15146W01 48T44813F01	IC, TA7705P MA165TA			ET201	01T55244W05	/ Remote Turn-On Lead) Assy., Connectors (Rear Output RCA Connectors
				Δ	ET201	01T55244W07	/ Remote Turn-On Lead) Assy., Connectors (Front / Rear Output RCA Connectors / Audio Interrupt In
	citors				57004	017757071401	Lead / Remote Turn-On Lead)
E1201 or	23S61524F13 23T55521W15				ET801	01T75292W01 88T10373W02	Assy., ISO Connector (Open / Speaker Output / Power) Head
C1202 E1202	08S72783F27 23S61524F08	CP., 220pF ELY., 100μF / 6.3V					
or	23T55521W07	ELY., 100µF / 6.3V			HD1101	88T15971W02 88T15971W02	Head Head
C1203 E1203	08572783F27 23561524F08	CP., 220pF ELY., 100µF / 6.3V		0	M1501	01V53200W99	Assy., Main Motor (13.2V-105mA)
or C1204	23T55521W07 08S72783F27	ELY., 100μF / 6.3V CP., 220pF			M1501	01V51800W42	Assy., Main Motor (13.2V-105mA)
E1204 or	23582482F02 23T55521W19	ELY., 100μF / 16V ELY., 100μF / 16V		Δ	M1501	01V51800W42	Assy., Main Motor (13.2V-105mA)
C1205	08\$72783F27	CP., 220pF			JK502	09T16653W01	DIN Connector
E1205	23S61524F18 23T55521W20	ELY., 4.7μF / 25V ELY., 4.7μF / 25V			LCD401 PT1501	1	LCD Display Sensor, Photo ON2170-R
or E1206	23561524F18	ELY., 4.7µF / 25V		ŀ	S1501	40T15222W01	Switch, Detector (PACK IN)
or	23T55521W20	ELY., 4.7µF / 25V			S1502	40T15382W01	Switch, Detector (PACK DOWN)
C1208 C1209	08T35122W02 08T35122W02	TF, 0.012µF TF, 0.012µF			S1503 SD1501	40T15382W01 01T10369W02	Switch, Detector (METAL) Assy., Eject Solenoid
C1209	061331224402	π, σ.στεμ			SD1502	01T15249W01	Assy., Play Solenoid Assy., RF Solenoid
Resisto	ors (All resist unless of	ors are chip 1/10W±:herwise noted.)	5%				
R1201	06S53330F29	100 ohm 1/8W					
R1202	06S53330F32	130 ohm 1/8W		1			
R1203 R1204	06S53330F32 06S64996F14	130 ohm 1/8W 330K ohm					·
R1204 R1205	06564996F14 06564996F14	330K ohm					
R1208	06S64995F79	12K ohm					
R1209	06564995F79	12K ohm	į	1			
R1210	06564995F81	15K ohm	į				
R1211 R1212	06S64995F81 06S64995F65	15K ohm 3.3K ohm					
R1213	06S53330F65	3.3K ohm 1/8W					
R1213	06S53330F85	22K ohm 1/8W		1			
R1215	06S64995F85	22K ohm					
		1-7531P Model only		Ļ			

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, Others: Common.



# **Cabinet Assembly Parts List**

Note: No parts number on parts list are not supplied.

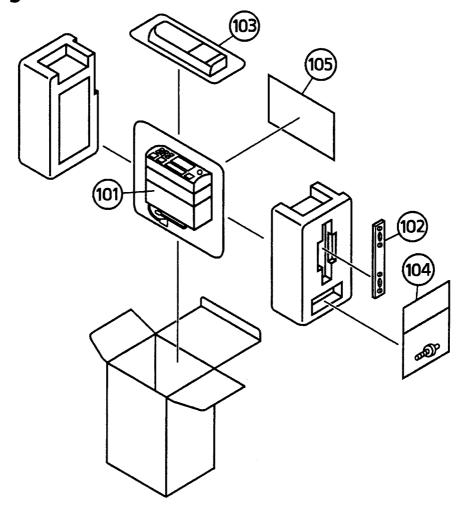
				Note .	NO part	Siluii	iber on parts	list are not supplied.
	mbol No.	index	Part No.	Description	Symbol No.	index	Part No.	Description
0 🗆 🗸	1 1 1 2 3	3-B 3-B 3-B 5-E 5-C	01V71800W61 01V71800W56 01V71700W43 13C70374W01 33C70276W01	Assy., Nose Unit Assy., Nose Unit Assy., Front Escutcheon				
	8 9 10 11 13	2-D 2-G 3-E	03544205G29 45C61079W01 03538013W02 03538013W24 77B60578W01	Screw, Pan (M2.6×14) Screw, Pan (M2.6×6)				
	16 17 18 19 20	3-C	15B70308W01 61A70307W01 15B70852W01 26A70309W01 75T75143W01	Lens, LCD Cover, LCD				
0 🗆 🛆	21 21 21 23 24	2-E	81D40887W02 81D40887W02 41A20424W01	Cassette Deck, GR75H110 Cassette Deck, GR75H120 Cassette Deck, GR75H120 Spring, Door Spacer, Remote				
004	25 26 26 26 26 27	3-C 3-B 3-B 3-B 3-D	07A71469W01 13D70279W09 13D70279W06 13D70279W03 13D70291W01	Assy., Nosepiece Assy., Nosepiece				
	28 29 30	3-D 2-G	03S68555F39 15A70387W01 03S38013W13	Screw, Countersink (M1.7×10) Holder, Antenna Screw, Bind (M2.6×6)				

Notes: O: For TDM-7531R Model only, ∆: For TDM-7535R Model only, Others: Common.

# **Packing Assembly Parts List**

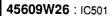
Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	15D50406W01	Case, Inner			
102	07B64552F01	Bracket, Strap Receiver			
103	15D60773W01	Carring Case			
104-1	02B47353F01	Nut, Hex. (M5)			
104-2	03572235F13	Screw, Countersink (M5×8)			
104-3	46A42363F01	Stud, Bolt			
104-4	36A11113W01	Cap, Rubber (A)			
104-5	03A11112W01	Bolt, Hex. (M5)			
104-6	01T75363W01	JASO / ISO Antenna Adaptor			
105	68P61329W47	Owner's Manual			
			L		

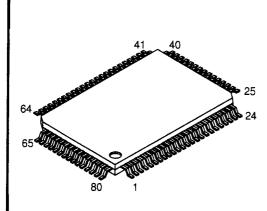
# **Packing Method View**



# **Semi - Conductor Lead Identifications**

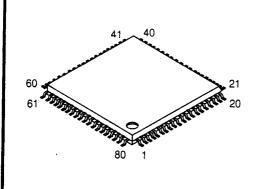
Note: For the parts not mentioned, refer to the Schematic Diagram.





PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0
1	NOSE ON	1	21	NC	<b>—</b>	41	LED IND	0	61	GND	-
2	AVREF	1	22	PWR IC ON	0	42	LCD CLK	0	62	GND	-
3	V <sub>DD</sub>	_	23	POWER CONT	0	43	GRNORG	0	63	GND	-
4	VDD	_	24	A.MUTE	0	44	LCD DATA	0	64	GND	_
5	AV REFOUT	0	25	NC	-	45	LCD INH	0	65	GND	=
6	PLAY SOL	0	26	NC	_	46	DTS MUTE	1	66	GND	_
7	RFSOL	0	27	NC	_	47	ACC+5	1	67	GND	_
8	EJECT SOL	0	28	IN INT	1	48	CHG D-IN	1	68	GND	_
9	MOTOR CONT	0	29	CHG D-OUT	0	49	REMOCON	1	69	GNID	-
10	O.MOTOR	0	30	E.VOL.CLK	0	50	DTS STATUS	I	70	GND	-
11	FOR/REV	0	31	E.VOL.DATA	0	51	DTSCMD	0	71	GND	_
12	O.FAST	0	32	NC	1	52	DTS SCK	0	72	GND	_
13	PACK IN	_	33	GND	_	53	BATT+5V	1	73	GND	_
14	M.S.DET	_	34	NC	_	54	GND		74	GND	_
15	GIND	_	35	DOLBY C	0	55	GND	_	75	GND	-
16	GIND	-	36	DOLBY B	0	56	NC	-	76	PACK DOWN	1
17	GND	_	37	LCD CE	0	57	GND	-	77	RUNDET	1
18	AREA 0	1	38	DTS CE	0	58	X1	1	78	KEY-IN ADO	1
19	AREA 1	1	39	DTS START	0	59	X2	0	79	KEY-IN AD1	1
20	TP ALARM	0	40	NOSE POWER	0	60	RESET	1	80	KEY-IN AD2	T

75099W04: IC504

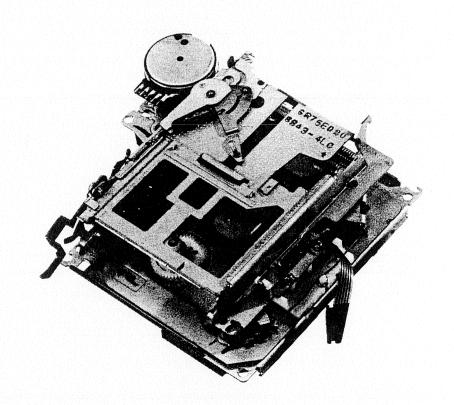


PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE	1/0
1	LW	0	21	NC	_	41	NC	-	61	RDS CLK	1
2	LO/DX	0	22	NC	-	42	NC	-	62	RDS DATA	1
3	NC	-	23	NC	_	43	NC	_	63	DTSCE	1
4	AVSS	_	24	NC	_	44	NC	_	64	NC	T =
5	LPF SW	0	25	NC	_	45	NC	-	65	NC	_
6	IF MUTE	0	26	NC	-	46	NC	_	66	NC	-
7	AVREF1	ı	27	NC	_	47	NC	-	67	50K REF	0
8	PLL UP	_	28	NC	_	48	NC	_	68	VDD	_
9	NC		29	NC	-	49	NC	-	69	X2	0
10	NC	-	30	NC	-	50	NC	-	70	X1	1
11	PLL CLK	0	31	NC	-	51	NC	_	71	Vss	_
12	PLL DATA	0	32	NC	-	52	NC	_	72	NC	_
13	PLL CE	0	33	V <sub>SS</sub>	-	53	NC	-	73	PLL D-IN	1
14	DTSMUTE	0	34	NC	-	54	NC	-	74	AVDD	_
15	DTS START	ı	35	NC	-	55	NC	-	75	AV <sub>REF0</sub>	
16	DTSCMD	ı	36	NC	-	56	NC	_	76	S.METER	ī
17	DTSSTATUS	0	37	NC	-	57	NC	-	77	ADJ-ON	1
18	DTSCLOCK	1	38	NC	-	58	FWAM	0	78	MULTI PATH	1
19	NC	-	39	NC	-	59	AUDIO IN	ī	79	डा	1
20	NC	-	40	NC	-1	60	RESET	1	80	SD	1

# 1LPINE SERVICE MANUAL

Exploded View & Parts List For Cassette Deck Mechanism

# **ADDENDUM & REVISED**



GR SERIES

Contents —	_
List of Usable Lock Washers	3
List of Usable Oil	3
List of Usable Jigs	3
Disassembly, Assembly and Replacement of Functional Parts	16
Exploded View (Cassette Deck)	18
Cassette Deck Assembly Parts List	20

## **List of Usable Lock Washers**

	SIZE	PARTS NO.	QUANTITY
1	$(M1.2 \times 3.5 \times 0.25)$	04A41345P01	8
2	$(M1.7 \times 3.5 \times 0.25)$	04A41345P02	1
3	$(M2.1 \times 5 \times 0.25)$	04A41345P06	1
4	$(M1.2 \times 2.5 \times 0.25)$	04A41345P11	8
5	$(M1.7 \times 3.5 \times 0.35)$	04A41345P12	2
6	$(M1.2 \times 3.5 \times 0.35)$	04A41345P15	1
7	$(M1\times2.5\times0.25)$	04A41345P17	1
8	$(M2.6 \times 5 \times 0.25)$	04A41345P29	1
9	$(M3.1 \times 8 \times 0.05)$	04A41345P30	1
10	$(M1.7 \times 3 \times 0.25)$	04A41345P31	1
11	$(M3.1 \times 5 \times 0.35)$	04A41345P32	2

### **List of Usable Oil**

- 1) Molykote E paste
- 2) Grease EM-30L3) Grease FLOIL 425A

## **List of Usable Jigs**

- 1) GR bottom gear jig (Part No. 44A20788W01)
- 2) Head height adjustment gauge (M-300 or AT-500)

# Memo

# Disassembly, Assembly and Replacement of Functional Parts

#### 1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws (2) as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position (1)-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction (A-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction(3) as shown in Figure 2.
- (8) Pull the door pin in the direction **(A)**-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10) Pull the automatic metal lever in the direction (A)-5 and the RF solenoid chip in the direction (A)-6 as shown in Figure 3.
- (11)Insert the hooks of the bottom cover into the chassis in the direction (a)-7, and then join the part (a)-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
  - If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12)Since the hooks marked (A)-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole (A)-9, and fix it turning the jig slightly.
  - Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.
  - After 2 to 3 turns, it will click into place. (Refer to Figure 4 and 5.)
- (13)Fix the screws and the lock washer that have been removed.

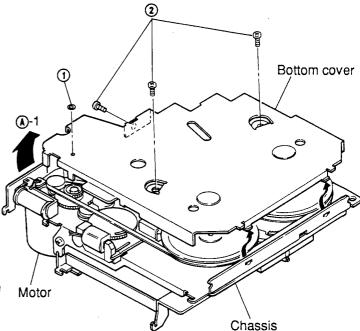


Figure 1

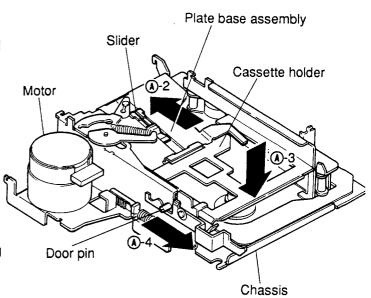


Figure 2

(14)Insert the jig into the hole (A)-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction (A)-10 with the finger.

Then the eject operation is completed.

Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

**Note:** Do not reuse the used lock washers for mounting.

When turning the mechanism, be careful not to drop the gear and the flywheel. Fasten the three screws with a fastening

torque of 6 kg/cm.

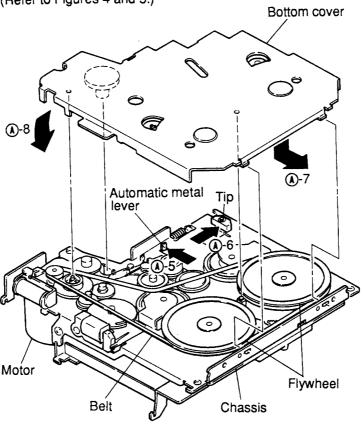


Figure 3

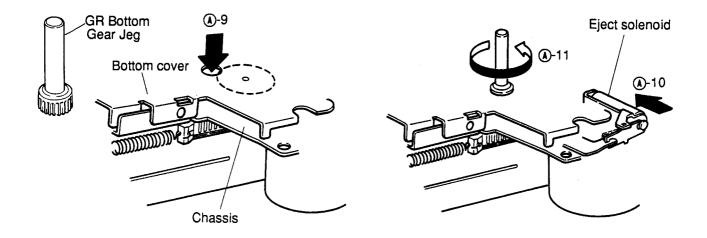


Figure 4

Figure 5

# 2. Replacement of the bottom cover mounting parts

- a. Replacement of the eject gear
  - (1) Remove M1.2 lock washer ③ as shown in Figure 6.
  - (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
  - (3) Apply the molykote E paste to the section (8-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

**Note:** Do not reuse the used lock washers for remounting.

Take care to avoid damage by piercing and tearing.

- b. Replacement of the RF solenoid
  - (1) Remove two solders (a) and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
  - (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder (4), set the temperature of the soldering iron to 350° +/- 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

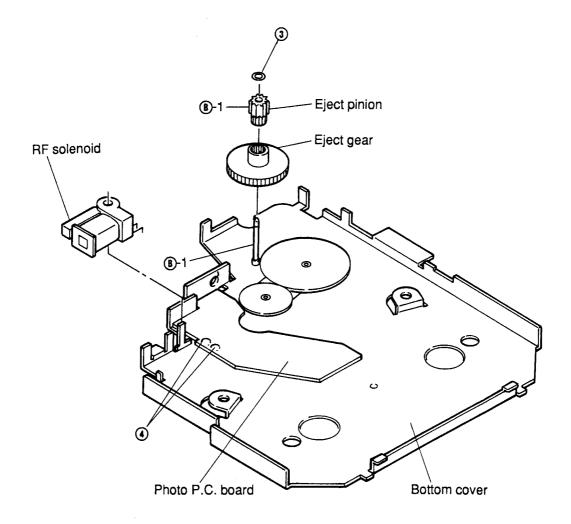


Figure 6

- c. Replacement of the photo sensor
  - (1) Remove four solders (5) as shown in Figure 7.
  - (2) Remove the photo guide together with the photo sensor from the photo PC board as shown in Figure 7.
  - (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked (8)-2 as shown in Figure 7.
  - (4) Insert the photo guide into the PC board and solder the legs so that the photo sensor is set as indicated by []] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to 350° +/— 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

- d. Replacement of the detector switch (Automatic metal packing ???)
  - (1) Remove 2 solders (a) with which the the switch is fixed as shown in Figure 7.
  - (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
  - (3) After that, insert the switch into the photo PC board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.

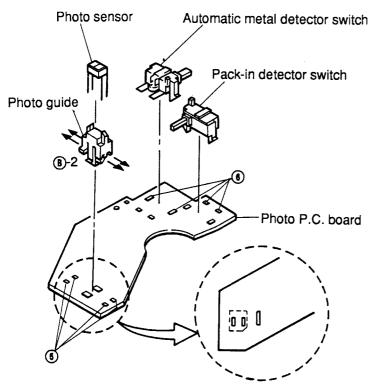


Figure 7

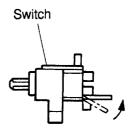


Figure 8

#### 3. Replacement of the mounting parts on the rear of the main chassis

#### a. Replacement of the belt

Flywheel

- (1) After removing the bottom cover, remove the
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

Note: When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

- b. Replacement of the motor
  - (1) After removing the belt, remove spring (7) as shown in Figure 10.
  - (2) Remove solder (8)-1, and remove the parallel wire (5P) from the control PC board as shown in Figure 11.
  - (3) Remove two screws (9) and (10), and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
  - (4) Mount the new motor following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care.

Fasten the two screws with a fastening

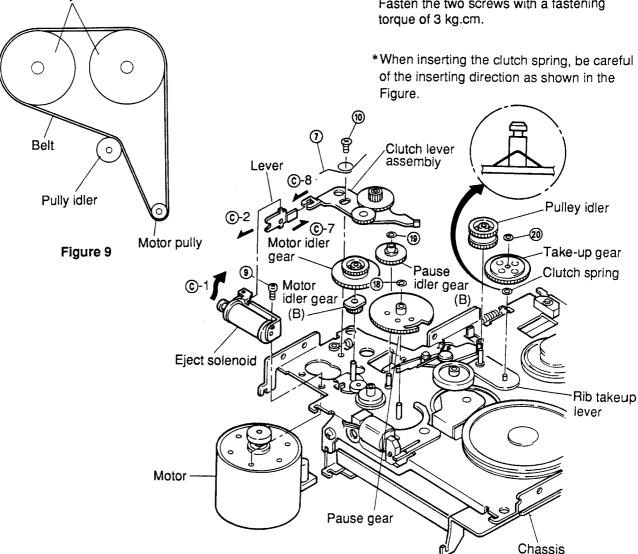


Figure 10

- c. Replacement of the flywheels
  - (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer (1) located between the flywheel and the chassis. (Refer to Figure 12.)
  - (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.
- d. Replacement of the play solenoid
  - (1) Remove the two solders (3)-2 as shown in Figure 11.
  - (2) Remove one screw ② and remove the solenoid as shown in Figure 11.
  - (3) Mount the new solenoid following the removal steps in the reverse order.

**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

- e. Replacement of the eject solenoid
  - (1) Remove two solders **3**-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
  - (2) Remove screw (3) and remove the play solenoid as shown in Figure 10.
  - (3) Align position ©-1 of the new solenoid with position ©-2 of the lever and fasten the screws as shown in Figure 10.
  - (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm.

As the solder wires are not insulated, do not let them cross each other.

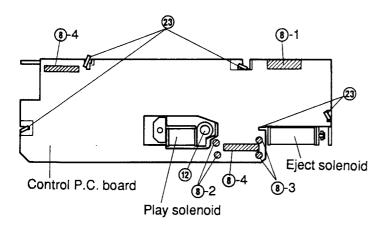


Figure 11

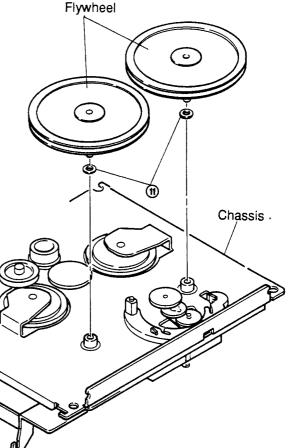


Figure 12

#### f. Replacement of gears

- (f-1) Replacement of the reverse idler gear
  - (1) Remove M1.2 lock washer (1), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
  - (2) Remount following the removal steps in the reverse order.

#### (f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer (4), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

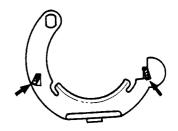
#### (f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis (a) and remove the section (c)-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ©-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.
- (f-4) Replacement of the reverse lever assembly and planet gear
  - (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
  - (2) Remove M1.7 lock washer (6) and remove the planet gear as shown in Figure 14.
  - (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

#### Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever assembly moves in the directions marked @-5 when the reverse gear is turned clockwise and counterclockwise.

\*After mounting the fixing gear, bend them into the form of as shown in the Figure.



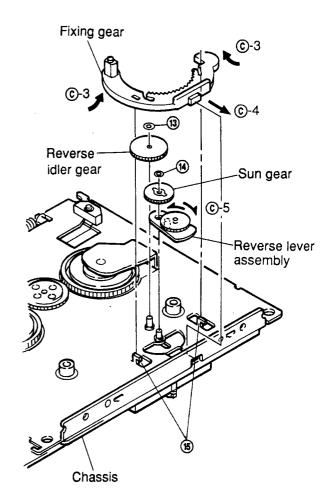


Figure 13

- (f-5) Replacement of the clutch lever assembly and eject idler gear
  - (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
  - (2) Remove M1.2 lock washer (1) and remove the eject idler gear as shown in Figure 15.
  - (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

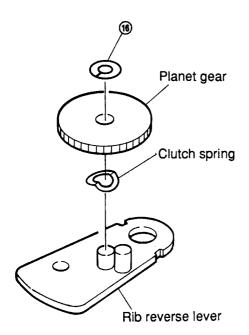
Note: When mounting the gears to the lever, apply grease (FLOIL 425A) to the position ©-6 as shown in Figure 15. Align the position ©-7 with the position ©-8 and mount the clutch lever as shown in Figure 10.

- (f-6) Replacement of the pause gear
  - (1) Remove M1.2 lock washer (1) and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
  - (2) Mount the new gear following the removal steps in the reverse order.

- (f-7) Replacement of the pause idler gear (B)
  - (1) After removing the motor and the motor idler gear, remove M1.2 lock washer (1) and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
  - (2) Mount the new gear by following the removal steps in the reverse order.
- (f-8) Replacement of the take-up gear
  - (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer @ by pulling it up from the stud of the rib take-up lever assembly as shown in Figure 10.
  - (2) Remount the take-up gear following the removal steps in the reverse order.

#### Notes on f:

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.



[Disassembly Reverse Lever Assembly]

Figure 14

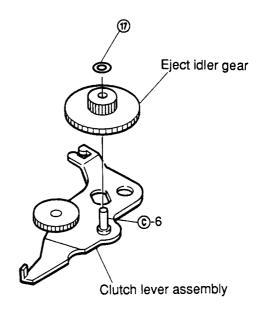
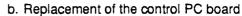


Figure 15

# 4. Replacement of the parts mounted on the front of the chassis

- a. Replacement of the audio PC board
  - (1) Remove two solders ② and remove the parallel wire (7P) and the head PC board as shown in Figure 16.
  - (2) Adjust the two claws ② to the rectangular holes on the PC board and remove the PC board as shown in Figure 16.
  - (3) After replacement, mount the new PC board following the removal steps in the reverse order.

Note: The head PC board and the parallel wires are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head PC board.



- (1) Remove seven solders (3) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
- (2) Remove the claws ② and remove the PC board as shown in Figure 11.
- (3) After replacing the old PC board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

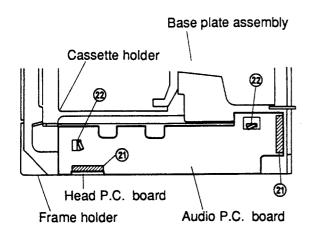


Figure 16

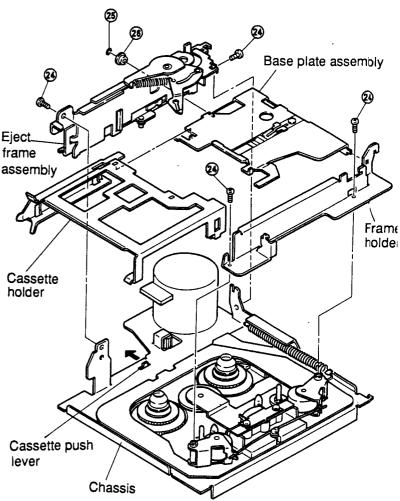


Figure 17

- c. Disassembly and assembly of the cassette holder
  - (1) Remove four screws ② and remove the eject frame assembly and the frame holder as shown in Figure 17.
  - (2) Remove M1.2 lock washer (2) and plate base roller (2) and remove the cassette holder and the base plate assembly as shown in Figure 17
  - (3) Remount them following the removal steps in the reverse order.
  - Notes: 1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).
    - When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
    - When mounting the base plate
       assembly and the eject frame
       assembly, or when mounting the eject
       frame assembly to the chassis, do not
       apply excessive force to avoid
       deformations of the eject arm and the
       frame.

- d. Replacement of the reels
  - Remove M1.7 lock washers (a) (Refer to figure 19).
  - (2) Move the select lever in the direction marked ①1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
  - (3) After replacement, mount the new reels following the removal steps in the reverse order.
  - (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-III.

Note: Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear.

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

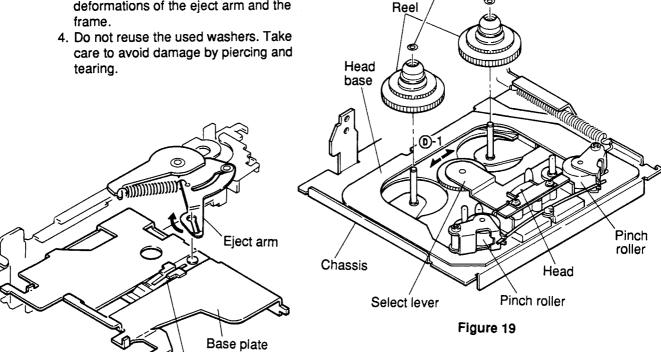


Figure 18

Slider

- e. Replacement of the pinch rollers
- (1) Remove pinch roller spring ② as shown in Figure 20.
- (2) Remove M3.1 lock washers ② and remove the pinch roller as shown in Figure 20.
- (3) Mount the pinch rollers following the removal steps in the reverse order.

  Apply insulation coating to the position (1)-2 of the pinch roller as shown in Figure 20.

Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.

- f. Replacement of the head
  - (1) After removing the pinch roller spring, remove two screws ② as shown in Figure 21.
  - (2) Remove solder ⓐ and remove the head from the head PC board as shown in Figure 22.
  - (3) After replacement, mount the new head following the removal steps in the reverse order.

Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head PC board. Make sure that the head PC board is not lifted.

 Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

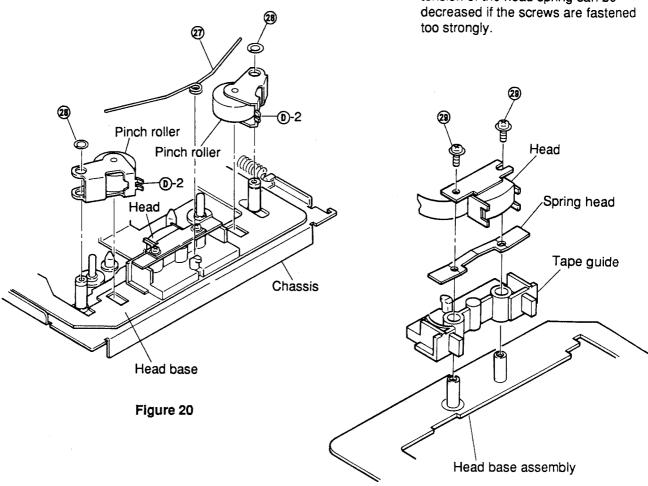
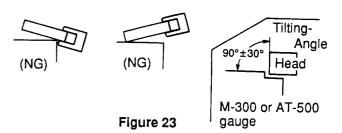


Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- ① Place the height adjustment gauge (M-300 or AT-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- ② When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (a)-(1), run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.

(5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-113C. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.



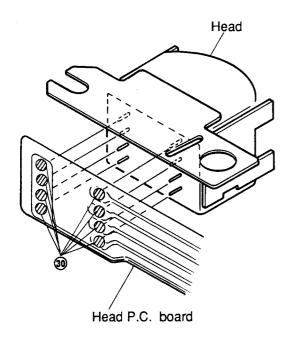


Figure 22

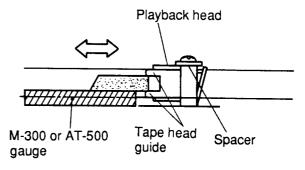
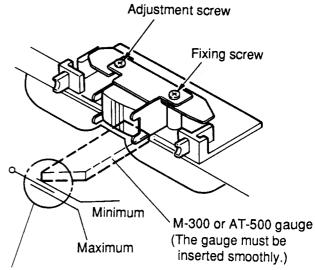


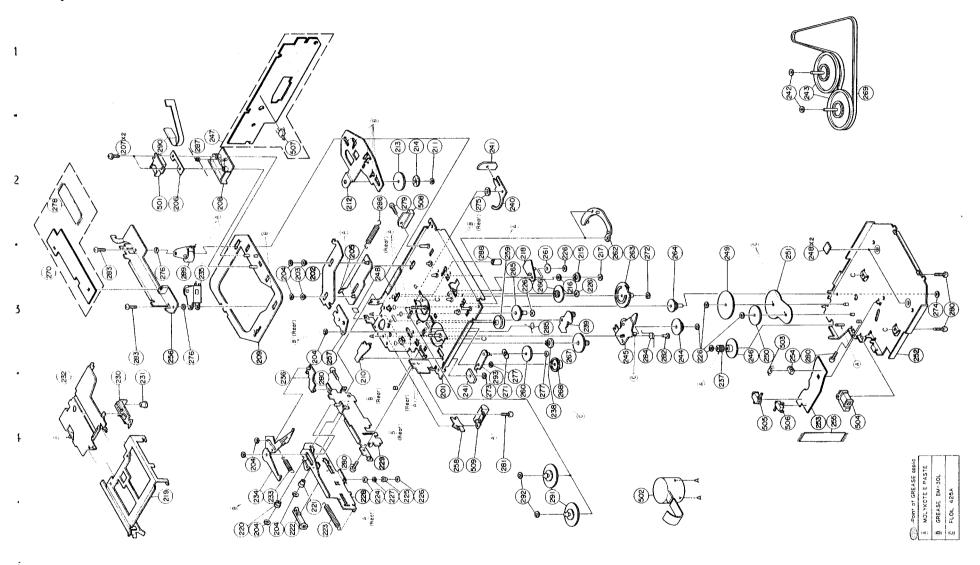
Figure 24



The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

## **Exploded View (Cassette Deck)**



# Cassette Deck Assembly Parts List Note: The parts without part numbers are not supplied.

	,	<del>,</del>		1	· —			e: me parts w	ithout part numbers are	HOL SUF	, <del>p1100.</del>
Symbol No.	IN- dex	Part No.	Description		1 1 '	mbol No.	IN- dex	Part No.	Description		
203	3-C	43A11072W01	Roller, Sub Head			248		43A90918F01	Spacer, Polyslider		
204		04A41345P01	Washer, Lock (M1.2)			249	3-F	44A11063W01	Gear, Bottom A		
206	2-B	41A10095W01	Spring, Head	1		250	3-F	44A11064W01	Gear. Bottom B		
207	2-B	03S40019G03	Screw, F-Locks (M2x4)			251	3-G	04A11122W01	Washer. GR		
208	2-B	43B12545W01	Tape. Guide		:	254	3-G	15B11065W01	Guide, Photo		
200	2-0	40012040#01				•••		1		1	
0.0	4	01A10206W01	Assy., Riv Lever R/F			255	4-G	30T15126W01	Wire, PC Sensor(7P)		
210	4-C	OINIOZOGNOI	Sol			258	4-D	45A10101W01	Lever, Eject Sol		
	0	04A41345P29	Washer, Lock (M2.6)			259	3-D	49A10131W01	Pulley, Idler		
211	2-D	44A10295W01	Gear Sensor		11	260	4-E	44A10133W01	Gear, Take Up		
213	2-D		Reflector			261	3-E	44A10134W01	Gear. Sun		
214	2-D	14A10681W01	Gear. Planet			201	3.5	44710134#01	dear. Suit		
215	3-E	44A10142W01	dear, rianet			262	3-E	44B10135W01	Gear, Fix		
	0.5	41410007100	Coming Clusch			263	3-E	44B10136W01	Gear. Pause		
216	3-E	41A10097W02	Spring. Clutch		11	264	3-E	44810138W01 44810137W01	Gear. Pause Idler A		
217	3-E	04A41345P31	Washer, Lock (M1.7)					1	! !		
218	3-E	01A10203W01	Assy., Riv Lever			265 266	3-D	44A10379W01 44A10138W01	Gear, Pause Idler B		
		04010041101	Reverse			200	3-E	44V10198A01	Gear, Reverse Idler		
219	4-B	07B10074W01	Holder, Cassette			007	0_0	4441019000	Coop Notes 141		
220	5-B	43A12583W01	Roller, Eject			267	3-E	44410139W01	Gear, Motor Idler		
						268	4-E	44A11062W01	Gear Reel Idler		
221	5-C	43A63281F01	Roller, Plate Base			269	1-C	42A10380W01	Belt. GR		
222	5-C	44A82206F01	Rack			270	3-A	01V14700W68	Assy. GR Audio		
223	5-C	41B10386W03	Spring, GR(Rack)	<u> </u>		270	3-A	01V11500W19	Assy GR Audio		
224	4-C	43A10121W01	Roller, Eject A	LL.		1					
225	4-D	43A10360W01	Roller, Eject B			270	3-A	01V11500W19	Assy., GR Audio	Í	
						271	4-D	41A10097W02	Spring, Clutch		
226		04A41345P11	Washer, Lock (M1.2)		$\parallel \parallel$	272	3-F	04A41345P15	Washer, Lock(M1.2)	ļ	
227	4-D	43A12377W01	Roller, Eject C			273	4-D	04A41345P02	Washer, Lock(M1.7)		
230	4-A	45B10376W01	Slider			274	3-H	04A41345P17	Washer, Lock(M1)		
231	4-B	47A63278F01	Shaft, Slider								
232	4-A	01A10212W01	Assy. Riv Plate Base			275	2-D	04A41345P30	Washer, Lock(M3.1)		
						276	3-B	04A41345P32	Washer, Lock (M3.1)		
233	4-C	41B10386W01	Spring, Eject Arm			277		04A41345P06	Washer, Lock(M2.1)		
234	4-B	01A10148W01	Assy Riv Eject			278	2-A	30T15126W02	Wire, PC Joint 7P		
			Arm A		$\parallel \parallel$	279	2-D	03S44205G78	Screw. Pan(M2x6)		
235	3-B	01B10381W02	Assy., Pinch Roller								
236	4-C	01A10202W01	Assy., Riv Lever			280		03S44205G30	Screw. Pan(M2.6x4)		
			Pack in SW		11	281	4-D	03S72235F38	Screw, Pan(M2x3.3)		
237	4-F	44A12975W01	Pinion, Eject			282	3-F	03A12132W02	Screw. Eject Clutch		
		1							(M2x2.3)		
238	4-E	44A13617W01	Gear, Motor Idler(B)			283		03S43997P64	Screw. Pan(M1.7x3)		
239	3-E	01A10201W01	Assy., Riv Lever			284	3-F	41A10384W01	Spring, Eject Clutch		
			Pause								
240	2-D	45A10092W01	Lever, Play			285	3-E	41A10385W01	Spring, Cas Push		
241	1	76T10374W01	Chip			286	2-C	41B10386W02	Spring, Sub Head		
242	1-G	04S40075G05	Washer Polyslider			287	2-B	41A10387W01	SP. Pinch Roller		
	-		(M2.1)			288	3-D	43A12719W01	Roller, Pause		
						289	3-B	01B10381W01	Assy Pinch Roller		
243	1-G	01A10368W01	Assy., Flywheel								
244	3-F	44A10141W01	Gear, Eject Idler							:	
245	3-E	01A10205W01	Assy. Riv Lever								
""	"		Clutch A					]			
246	3-F	44A10145W01	Gear, Eject		11						
247	2-B	01V11500W18	Assy. GR Control								
'*'	""	STITLOUGHIO	nooy on control								
	1	1									
<u> </u>		1	adali aali 🔲 . Caa CD7	<u> </u>	ـا ك		<u> </u>	.1	<u> </u>		<b>L</b>

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only

▲ ; For GR75E01A model only Others ; Common

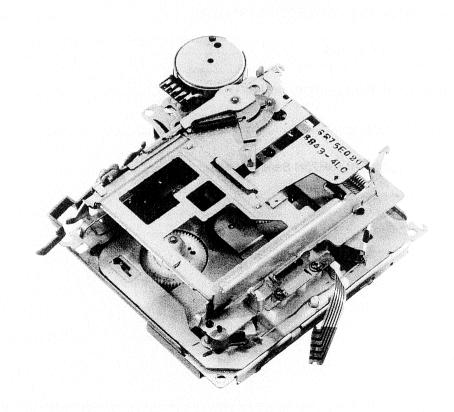
Sy	mbol	IN-	Part No.	Description	
<u> </u>	No.	dex	0.171.00071101	Daras Hand	
1_	290	2-B	84T10367W01	Panel, Head Assy., Reel	
1	291	4-E	01T15164W01	Assy., Reel	
		4-E			
<b>^</b>		4-E	01T15164W02	Assy., Reel	
	292	4-E	04A41345P12	Washer, Lock(MI.7)	
				. Dia Laura	
	293	4-D	01A11078W01	Assy., Riv Lever	
				Take Up	
					·
-	L		Mis	cellaneous	 <u> </u>
-	501	2-B	88T15971W01	Head	
	501	2-B 2-B	88T10373W01	Head	
	1	2-B	88T10373W01	Head	
		l	01V11500W64	Assy., Motor	
1	503	3-G	51T15144W01	Sensor, Photo	
-	303	3-6	31113144#01	Selisor, Photo	
	504	4-G	01T10371W01	R/F Sol. Assy.	
	505	4-6 4-F	40T15382W01	SW., Detector	
	303	4-r	40113362#01	(Pack Down)	
ŀ	506	4	40T15382W01	SW Detector(Metal)	
	507	4-G	40T15222W01	SW., Detector (Metal)	
	307	2-C	40113222#01	(Pack In)	
	508	2-D	01T15249W01	Assy., Play Solenoid	
	300	2-0	01113243101	ASSY. Flay Solehold	
l	509	4-D	01T10369W01	Assy., Eject Solenoid	
	***	1	01110000101	noo, i byour boronora	
1					
		İ			
1					
		1			
	İ				
1					
Ц		L	l		

Notes : ● : For GR75E020 model only ■ : For GR75E010 model only ▲ : For GR75E01A model only Others : Common

# MILPINE SERVICE MANUAL

# Cassette Deck Mechanism

# ADDENDUM & REVISED(V)



GR/GR-Y SERIES

Contents	
List of Usable Lock Washers	3
List of Usable Oil	3
List of Usable Jigs	3
Disassembly, Assembly and Replacement of Functional Parts	5 to 16
Exploded View (GR75E Series) (1/4)	17 to 18
Cassette Deck Assembly Parts List (GR75E Series) (1/4)	19 to 20
Exploded View (GR75L Series) (2/4)	21 to 22
Cassette Deck Assembly Parts List (GR75L Series) (2/4)	23 to 24
Exploded View (GR-Y Series) (3/4)	25 to 26
Cassette Deck Assembly Parts List (GR-Y Series) (3/4)	27 to 28
Exploded View (GR75H Series) (4/4)	29 to 30
Cassette Deck Assembly Parts List (GR75H Series) (4/4)	31 to 32

GR/GR-Y Series

GR/GR-Y Series

### Memo

### **List of Usable Lock Washers**

				QUAN	ITITY	
$  \setminus  $	SIZE	PARTS NO.	GR75E	GR75L	GR-Y	GR75H
			Series	Series	Series	Series
1	$(M1.2 \times 3.5 \times 0.25)$	04B41345P01	4	4	4	2
2	$(M1.7 \times 3.5 \times 0.25)$	04B41345P02	1	1	1	4
3	$(M1.2 \times 2.5 \times 0.25)$	04B41345P11	8	8	8	9
4	$(M1.7 \times 3.5 \times 0.35)$	04B41345P12	2	2	2	2
5	$(M1.2 \times 3.5 \times 0.35)$	04B41345P15	2	2	2	2
6	$(M1 \times 2.5 \times 0.25)$	04B41345P17	1	1	1	2
7	$(M2.6 \times 5 \times 0.25)$	04B41345P29	1	1	1	1
8	$(M3.1 \times 8 \times 0.05)$	04B41345P30	1	_11	1	1
9	$(M3.1 \times 5 \times 0.35)$	04B41345P32	2	2	2	2
10	$(M1.2 \times 2.5 \times 0.3)$	04B41345P34	1	1	1	0
11	$(M1.7 \times 2.8 \times 0.25)$	04B41345P35	1	1	1	2
12	$(M2.1 \times 4 \times 0.25)$	04B41345P37	1	1	1	0
13	$(M2.1 \times 4 \times 0.13)$	04S40075G05	2	2	2	0
14	$(M2.1 \times 4 \times 0.3)$	04S40075G58	0	0	0	1

### **List of Usable Oil**

- Molykote G paste
   Grease EM-30L
   Grease PG-671

## **List of Usable Jigs**

- GR bottom gear jig (Part No. 44A20788W01)
   Head height adjustment gauge AI-500 (Part No. AI-500)

# Disassembly, Assembly and Replacement of Functional Parts

### 1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws ② as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position (a)-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction (4)-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction (A)-3 as shown in Figure 2.
- (8) Pull the door pin in the direction (a)-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10)Pull the automatic metal lever in the direction
  (a)-5 and the RF solenoid chip in the direction
  (a)-6 as shown in Figure 3.
- (11) Insert the hooks of the bottom cover into the chassis in the direction (a)-7, and then join the part (a)-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
  - If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12)Since the hooks marked (A)-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole (A)-9, and fix it turning the jig slightly in the direction (A)-11. Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.
  - After 2 to 3 turns, it will click into place. (Refer to Figures 4 and 5.)
- (13) Fix the screws and the lock washer that have been removed.

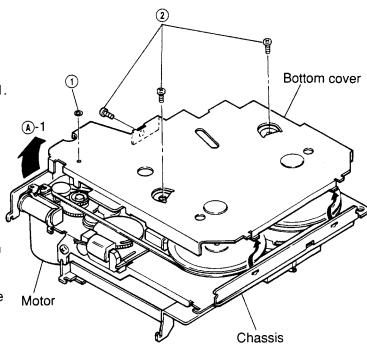


Figure 1

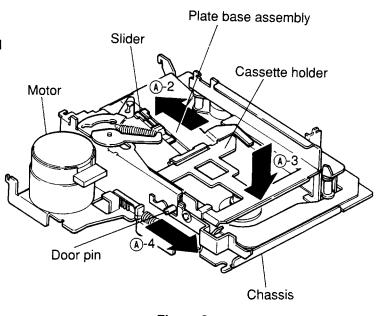


Figure 2

(14)Insert the jig into the hole (a)-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction (a)-10 with the finger.

Then the eject operation is completed.

Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

Note: Do not reuse the used lock washers for mounting.

When turning the mechanism, be careful not to drop the gear and the flywheel.

Fasten the three screws with a fastening torque of 6 kg.cm.

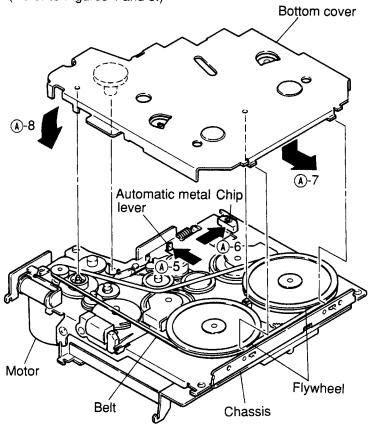


Figure 3

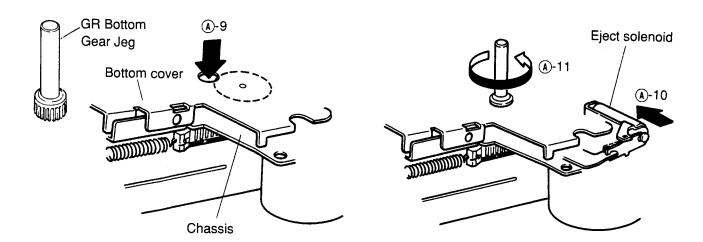


Figure 4

Figure 5

### 2. Replacement of the bottom cover mounting parts

- a. Replacement of the eject gear
- (1) Remove M1.2 lock washer ③ as shown in Figure 6.
- (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
- (3) Apply the molykote E paste to the section (8-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

**Note:** Do not reuse the used lock washers for remounting.

Take care to avoid damage by piercing and tearing.

- b. Replacement of the RF solenoid
- (1) Remove two solders ④ and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
- (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.
- Note: When removing solder ④, set the temperature of the soldering iron to 350° ± 10° and the soldering time to 1 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

- c. Replacement of the photo sensor
  - (1) Remove four solders (5) as shown in Figure 7.
  - (2) Remove the photo guide together with the photo sensor from the photo P.C. board as shown in Figure 7.
  - (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked (B)-2 as shown in Figure 7.
  - (4) Insert the photo guide into the P.C. board and solder the legs so that the photo sensor is set as indicated by []] in Figure 7.

**Note:** When using the soldering iron, set the temperature of the soldering iron to  $350^{\circ} \pm 10^{\circ}$  and the soldering time to 1-3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

- d. Replacement of the detector switch (Automatic metal pack-in)
- (1) Remove 4 solders (6) with which the switch is fixed as shown in Figure 7.
- (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo P.C. board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.

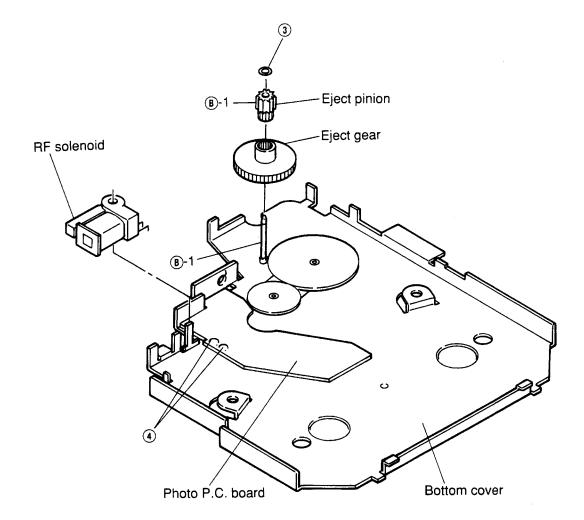


Figure 6

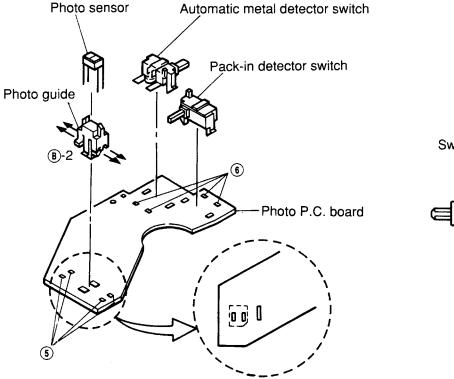


Figure 7

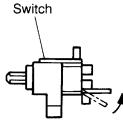


Figure 8

### 3. Replacement of the mounting parts on the rear of the main chassis

- a. Replacement of the belt
- (1) After removing the bottom cover, remove the belt.
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

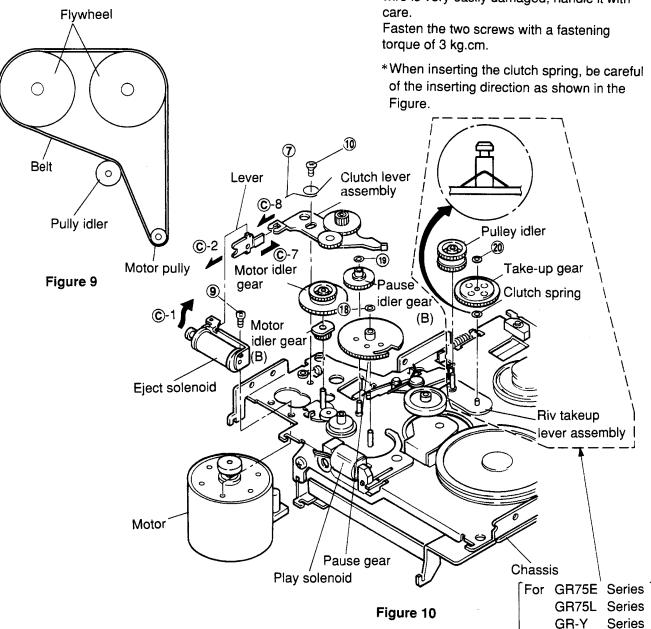
**Note:** When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

b. Replacement of the motor

- (1) After removing the belt, remove spring ① as shown in Figure 10.
- (2) Remove solder (8)-1, and remove the parallel wire (5P) from the control P.C. board as shown in Figure 11.
- (3) Remove two screws (9) and (10), and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
- (4) Mount the new motor following the removal steps in the reverse order.

**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care.

models



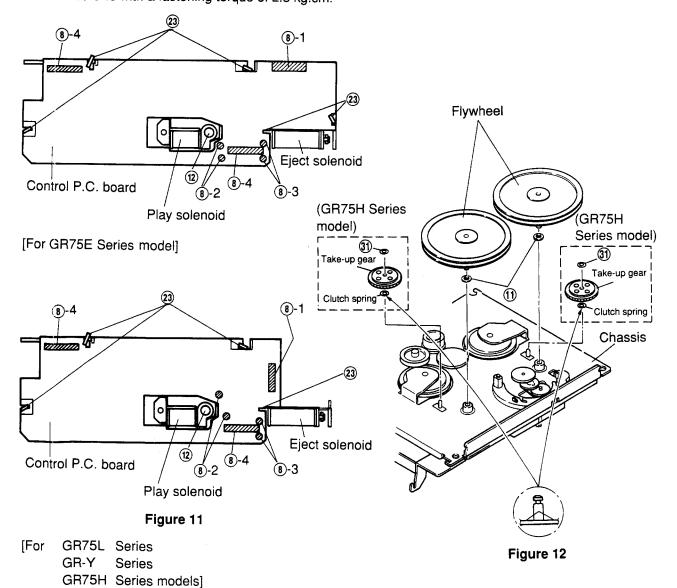
c. Replacement of the flywheels

- (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer (1) located between the flywheel and the chassis. (Refer to Figure 12.)
- (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.
- d. Replacement of the play solenoid
- (1) Remove the two solders (8)-2 as shown in Figure 11.
- (2) Remove one screw ② and remove the solenoid as shown in Figure 11.
- (3) Mount the new solenoid following the removal steps in the reverse order.

**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

- e. Replacement of the eject solenoid
- (1) Remove two solders (8)-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
- (2) Remove screw (9) and remove the solenoid as shown in Figure 10.
- (3) Align position ©-1 of the new solenoid with position ©-2 of the lever and fasten the screw as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solenoid wires are not insulated, do not let them cross each other.



- 9 -

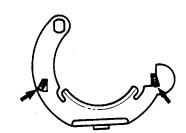
### f. Replacement of gears

- (f-1) Replacement of the reverse idler gear
- (1) Remove M1.2 lock washer (3), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Remount following the removal steps in the reverse order.
- (f-2) Replacement of the sun gear
- (1) Remove M1.2 lock washer (4), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.
- (f-3) Replacement of the fixing gear
- (1) Adjust the two mounting claws for the fix gear on the chassis (§) and remove the section (©)-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ©-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.
- (f-4) Replacement of the reverse lever assembly and planet gear
- (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
- (2) Remove M1.7 lock washer (6) and remove the planet gear as shown in Figure 14.
- (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

#### Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever moves in the directions marked ©-5 when the reverse gear is turned clockwise and counterclockwise.

\*After mounting the fixing gear, bend the claws (§) into the form of as shown in the Figure.



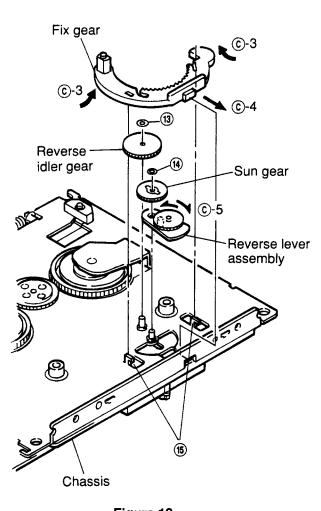


Figure 13

- (f-5) Replacement of the clutch lever assembly and eject idler gear
  - (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
  - (2) Remove M1.2 lock washer ① and remove the eject idler gear as shown in Figure 15.
  - (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (PG-671) to the position ©-6 as shown in Figure 15. Align the position ©-7 with the position ©-8 and mount the clutch lever as shown in Figures 10 and 15.

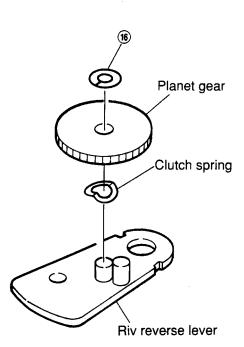
- (f-6) Replacement of the pause gear
  - (1) Remove M1.2 lock washer ® and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
  - (2) Mount the new gear following the removal steps in the reverse order.

- (f-7) Replacement of the pause idler gear (B)
- (1) After removing the motor and the motor idler gear, remove M1.2 lock washer (19) and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear by following the removal steps in the reverse order.
- (f-8) Replacement of the take-up gear
  - (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer ② by pulling it up from the stud of the riv take-up lever assembly as shown in Figure 10.

    After removing the Flywheel, remove M1.2 lock washer ③ and remove the gear by pulling it up from the stud of the chassis as shown in figure 12. [For GR75H Series model]
- (2) Remount the take-up gear following the removal steps in the reverse order.

#### Notes on f:

Do not reus e the used washers. Take care to avoid damage by piercing and tearing.



[Disassembly Reverse Lever Assembly]

Figure 14

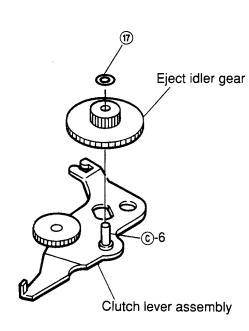


Figure 15

### 4. Replacement of the parts mounted on the front of the main chassis

- a. Replacement of the audio P.C. board
  - (1) Remove two solders ② and remove the parallel wire (7P) and the head P.C. board as shown in Figure 16.
  - (2) Adjust the two claws ② to the rectangular holes on the P.C. board and remove the P.C. board as shown in Figure 16.
  - (3) After replacement, mount the new P.C. board following the removal steps in the reverse order.

Note: The head P.C. board and the parallel wire are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board.

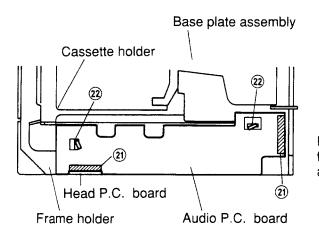


Figure 16

- b. Replacement of the control P.C. board
  - (1) Remove seven solders (8) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
  - (2) Remove five claws ② and remove the P.C. board as shown in Figure 11. [For GR75E Series model] Remove four claws ② and remove the P.C. board as shown in Figure 11. [For GR75L Series, GR-Y Series, GR75H Series models]
  - (3) After replacing the old P.C. board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

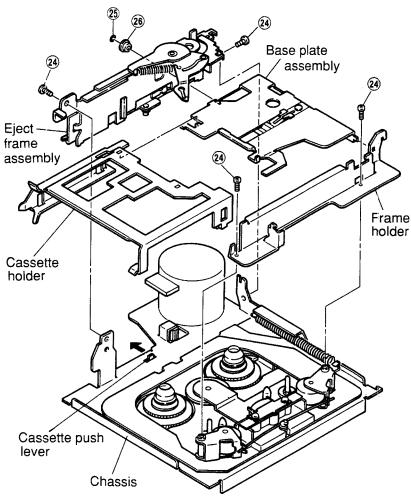


Figure 17

- c. Disassembly and assembly of the cassette holder
  - (1) Remove four screws (2) and remove the eject frame assembly and the frame holder as shown in Figure 17.
  - (2) Remove M1.2 lock washer (3) and plate base roller (3) and remove the cassette holder and the base plate assembly as shown in Figure 17.
  - (3) Remount them following the removal steps in the reverse order.

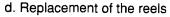
Notes: 1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).

- When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
- 3. When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.
- Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

Eiect arm

Base plate

Slider



- (1) Remove M1.7 two lock washers ② (Refer to figure 19).
- (2) Move the select lever in the direction marked
   ①-1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
- (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-111.

**Note:** Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

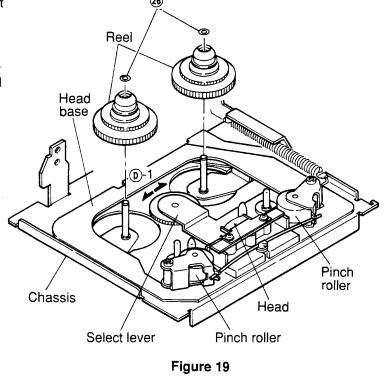


Figure 18

- e. Replacement of the pinch rollers
  - (1) Remove pinch roller spring ② as shown in Figure 20.
  - (2) Remove M3.1 two lock washers ② and remove the pinch roller as shown in Figure 20.
  - (3) Mount the pinch rollers following the removal steps in the reverse order.

    Apply insulation coating to the position (1)-2 of the pinch roller as shown in Figure 20.

Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.



- (1) After removing the pinch roller spring, remove two screws ② as shown in Figure 21.
- (2) Remove solder (3) and remove the head from the head P.C. board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse order.
- Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board. Make sure that the head P.C. board is not lifted.
  - Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

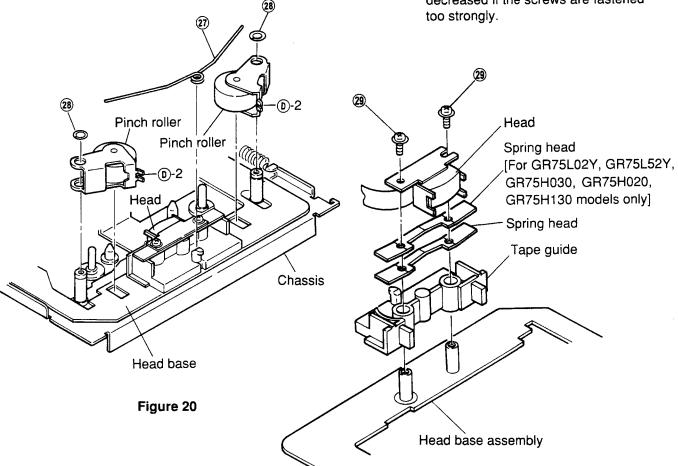
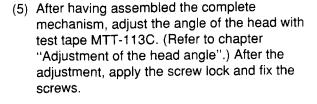


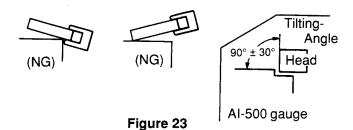
Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- ① Place the height adjustment gauge (AI-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm).

  If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (4)-1, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.





Head P.C. board

Figure 22

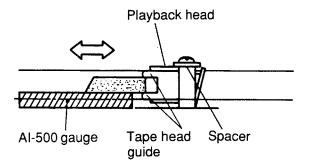
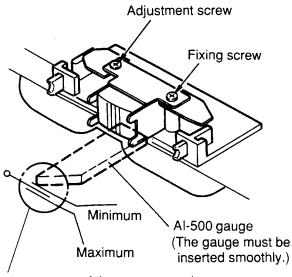


Figure 24

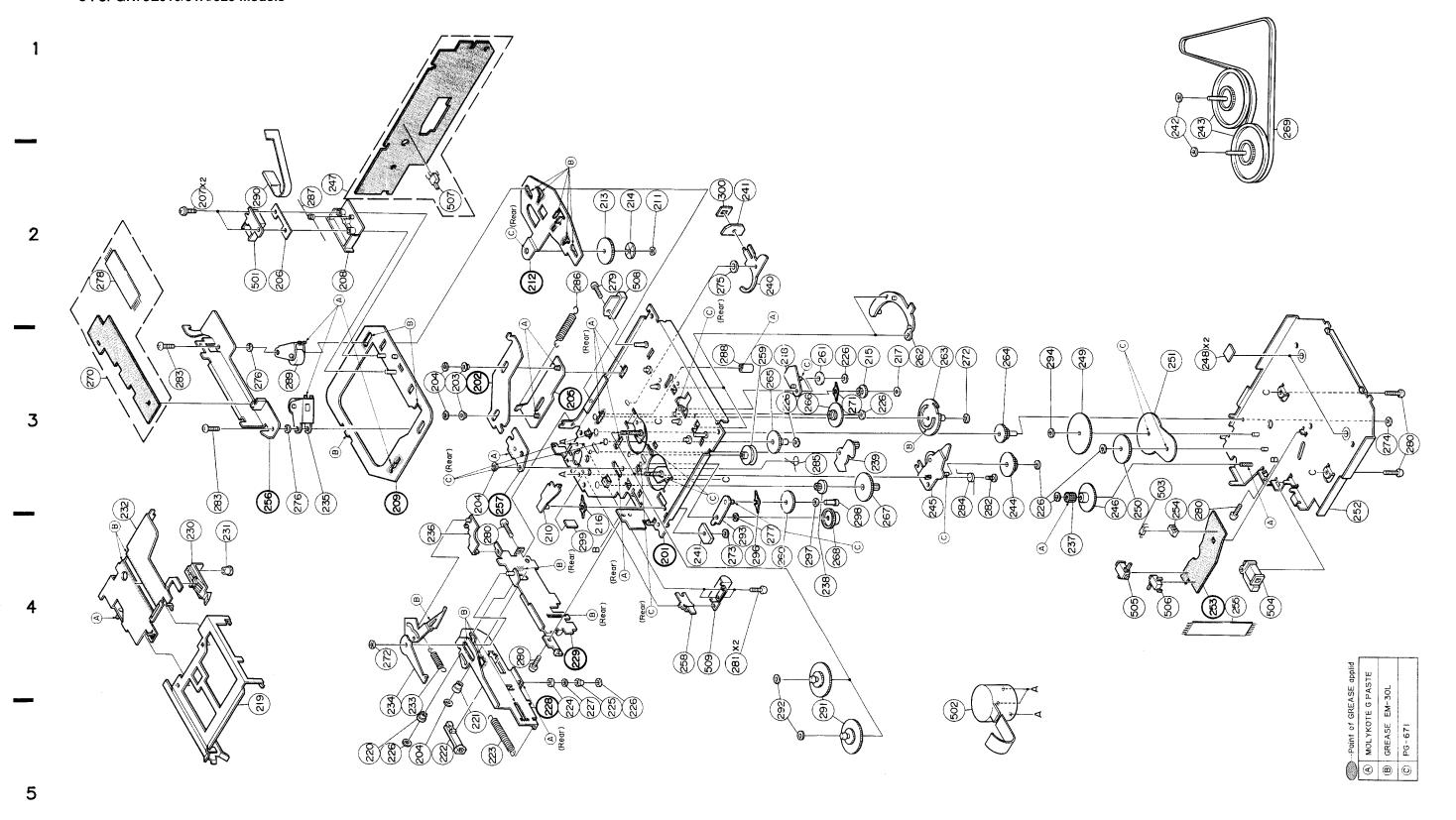


The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

### Exploded View (GR75E Series) (1/4)

● For GR75E010/01A/020 Models



A | B C | D | E | F | G |

# Cassette Deck Assembly Parts List (GR75E Series) (1/4)

-	ipol	1 N-	Part No.	Description
	10.	dex		D.11 O.b.P
	203	3-C	43A11072W01	Roller. Sub Head
Ì	204		04B41345P01	Washer, Lock(M1.2)
	206	2-B	41A31756W01	Spring, Head
	207	2-B	03S40019G03	Screw. F-Locks (M2x4)
	208	2-В	43B12545W01	Tape. Guide
	210	4-C	01A10206W01	Assy Riv Lever R/F
				Sol
	211	2-D	04B41345P29	Washer, Lock(M2.6)
	213	2-D	44A10295W01	Gear. Sensor
	214	2-D	14A10681W01	Reflector
	215	3-E	44A30480W01	Gear. Planet
	0.1.0	912	41A10097W02	Spring, Clutch
	216	3-E	04B41345P35	Washer, Lock(M1.7)
	217	3-E	01A30824W01	Assy. Riv Lever
	218	3-E	01720074#01	Reverse
_	219	4-B	07B40283W01	Holder, Cassette
	219	4-B	07B40283W01	Holder. Cassette
▲	219	4-B	07B10074W01	Holder, Cassette
	220	5-B	43A12583W01	Roller, Eject
	221	5-C	43A63281F01	Roller, Plate Base
	222	5-C	44A82206F01	Rack
	223	5-C	41B10386W03	Spring, GR(Rack)
	001	4.0	49430191801	Roller, Eject A
	224	4-C	43A10121W01	Roller, Eject B
	225	4-D	43A10360W01	
	226		04B41345P11	Washer, Lock (M1.2)
	227	4-D	43A12377W01	Roller, Eject C
	230	4-A	45B10376W01	Slider
	231	4-B	47AG3278F01	Shaft, Slider
	232	4-A	01A10212W01	AssyRiv Plate Base
	233	4-C	41B10386W01	Spring. Eject Arm
	234	4-B	01A10148W01	Assy. Riv Eject
	0.05	3-B	01B30863W02	Arm A Assy., Pinch Roller
	235	3-0	01030003#02	hosy. Then hopes
	236	4-C	45A10087W01	Lever Pack In SW
	237	4-F	44A12975W01	Pinion, Eject
	238	4-E	44A13617W01	Gear. Motor Idler(B)
	239	3-E	01A10201W02	Assy., Riv Lever
	240	2-D	45A40725W01	Lever. Play Sol
	241		76T10374W01	Chip
	242	1-G	04S40075G05	Washer Polyslider (M2.1)
	243	1-G	01A10368W01	
	244			
	245	1		1
	230			Clutch A

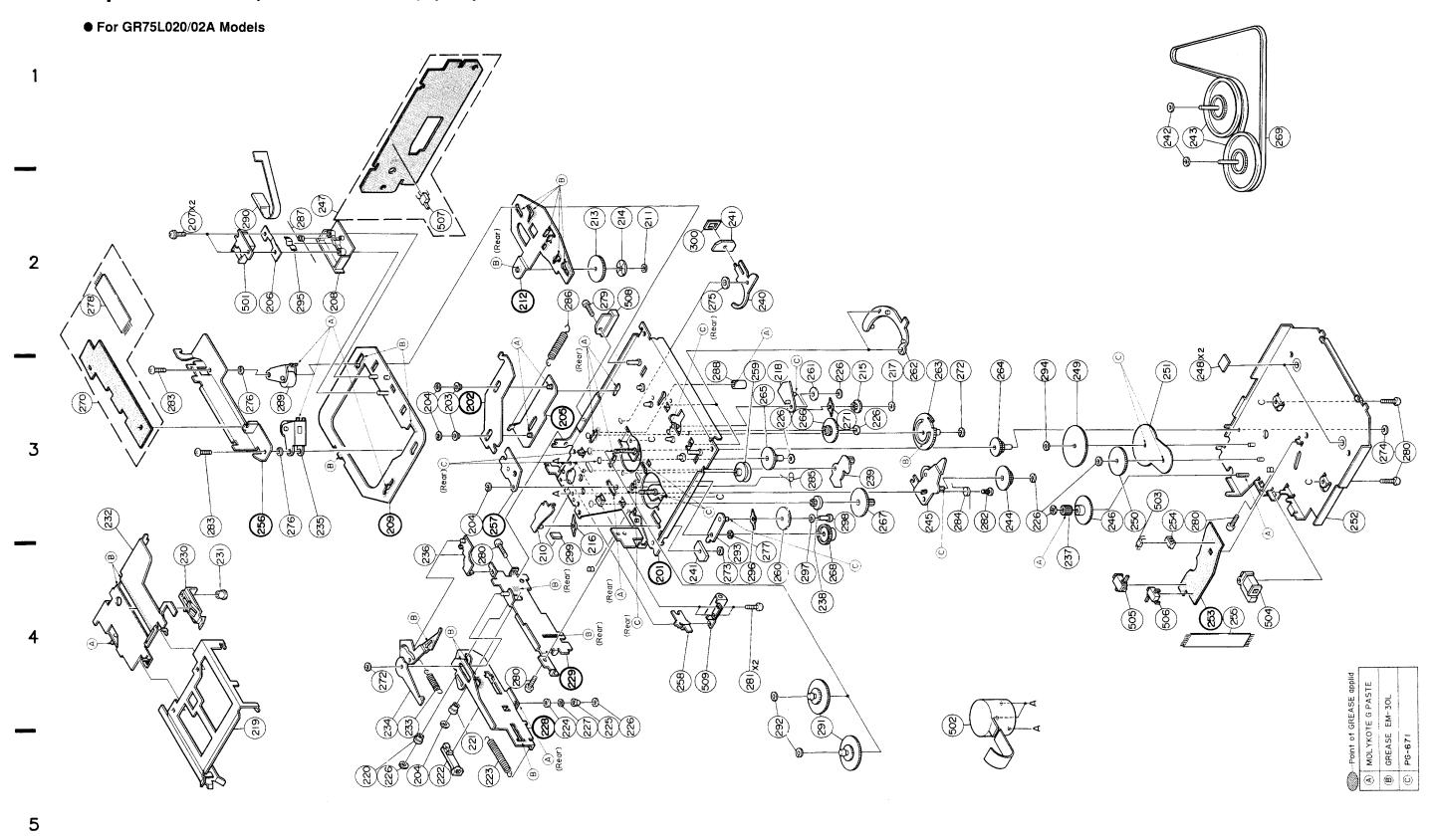
		`		
	T		: The parts w	ithout parts list are not supplied.
	bol	1 N-	Part No.	Description
	0.	dex	11110115001	Cons Figor
- 1	246	3-F	44A10145W01	Gear, Eject
	247	2-B	01V11500W18	Assy., GR Control
				P.C. Board
	248	3-G	43A41656W01	Spacer, UHMW
İ	249	3-F	44A11063W01	Gear. Bottom A
	250	3-F	44A11064W01	Gear. Bottom B
			0.4444.000.00	Washer, GR
	251		34A11122W02	Assy., Riv. Cover Bottom
	252		01A10210W02	Guide, Photo
	254		15B11065W01	<b>↓</b>
	255			Wire, PC Sensor(7P)
	258	4-D	45A10101W01	Lever, Eject Sol
	259	3-D	49A10131W01	   Pulley.   Idler
	260	4-E	44A10133W01	Gear, Take Up
Ì	261	3-E	44A10134W01	Gear, Sun
		ļ	44B10135W01	Gear, Fix
	262		44B30484W01	Gear, Pause
	263	3-E	44000404#01	deal , lause
	264	3-F	44A10137W01	Gear, Pause Idler A
	265	i	44A10379W01	Gear. Pause Idler B
	266		44A10138W01	Gear, Reverse Idler
	267	3-E	44A10139W01	Gear, Motor Idler
		4-E	44A11062W01	Gear, Reel Idler
	268	4-1	44/11002#01	ocar noor rare
	269	1-G	42A10380W01	Belt, GR
•	270	3-A	01V14700W68	Assy., GR Audio
	!			P.C. Board
	270	3−٨	01V11500W19	Assy GR Audio
				P.C. Board
	270	3-A	01V11500W19	Assy GR Audio
				P.C. Board
	271	3-E	41A30475W01	Spring. Clutch
	272			Washer, Lock(M1.2)
	273	4-D	04B41345P02	Washer, Lock(M1.7)
1	274	3-11	04B41345P17	Washer, Lock(M1)
1	275	2-D	04B41345P30	
	276		04B41345P32	Washer, Lock(M3.1)
			OAD 110 15 DOG	Weeker Lock/W2 1)
	277	4-E	04B41345P37	
İ	278	2-A	30T15126W02	- 1110 0
	279	2-D	03S44205G78	
	280		03S44205G30	
	281	4-D	03S72235F53	Screw. Pan(M2x3.3)
	282	3-1	03A12132W02	Screw. Eject Clutch
	102	"		(M2x2.3)
	283		03\$43997P64	
	284			1
1	285	1	1	
	286	- 1		
- 1		l l		

Symt	- 1	IN-	Part No.	Description
÷	287	dex 2-B	41A10387W01	Spring, Pinch Roller
ł		3-D	43A12719W01	Roller, Pause
	- 1	- 1	01B30863W01	Assy., Pinch Roller
			84T25151W01	Head P.C. Board
- i	Ţ	Į.	01T35403W01	Assy., Reel
1	291	4 1	01100400#01	
	292	4-E	04B41345P12	Washer, Lock(M1.7)
- 1	293	4-D	01A30161W01	Assy., Riv Lever
		;		Take Up
	294	3-F	04B41345P34	Washer Lock(Mi.2)
- 1	296	4-D	41A40910W01	Spring, Clutch
	297	4-E	43A41543W01	Washer, Som(M1.2)
	50.			
	298	3-E	47A41458W01	Pin, Take Up
- 1	299		43A40388W01	Spacer, Polyslider
- 1	300	2-D	43A41744W01	Lock, Solenoid
	000			
	1			·
İ				
-				
ļ				
l				
		L		
			Misc	ellaneous
•	501	2-B	88T15971W01	Head
	501	2-B	88T10373W01	Head
lack	501	2-B	88T10373W01	Head
	502	4-E	01V11500W64	Assy., Motor(Main, 13.2V-80mA)
	503	3-C	51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy.
	505	4-F	40T15382W01	SW Detector
				(Pack Down)
	506	4-G	40T15382W01	SW Detector(Metal)
	000	1 2 0	1	
. '	507	2-0	A0T15999¥01	SW., Detector (Pack In)
	507	2-C	40T15222W01	SW., Detector (Pack In)
,	507 508	2-C 2-D	01T15249W01	Assy. Play Solenoid
	508	2-D	01T15249W01	Assy Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy Play Solenoid
	508	2-D	01T15249W01	Assy Play Solenoid
	508	2-D	01T15249W01	Assy Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid

Notes: ● : For GR75E020 model only ■ : For GR75E010 model only

▲ ; For GR75E01A model only Others ; Common

### Exploded View (GR75L Series) (2/4)



- 21 -A B C D E F G I

# Cassette Deck Assembly Parts List (GR75E Series) (2/4)

-	nbol	IN-	Part No.	Description
	No.	dex	10111000000	D-11 Och Head
	203	3-C	43A11072W01	Roll, Sub Head
	204		04B41345P01	Washer, Lock(M1.2)
	206	2-B	41A31756W01	Spring, Head
	207	2-B	03S40019G03	Screw, F-Locks (M2x4)
	208	2-B	43B12545W01	Tape. Guide
		4.0	01410000001	Assy., Riv Lever R/F
	210	4-C	01A10206W01	Sol.
	011	0.0	04B41345P29 .	Washer, Lock(M2.6)
	211	2-D		Gear, Sensor
	213	2-D	44A10295W01	Reflector
	214	2-D	14A10681W01	Gear. Planet
ĺ	215	3-E	44A30480W01	dear. Flamet
	010	l o r	41 4 1 0 0 0 7 W 0 2	Spring, Clutch
	216	3-E	41A10097W02 04B41345P35	Washer, Lock(M1.7)
	217	3-E		Assy., Riv Lever
ŀ	218	3-E	01A30824W01	Reverse
ŀ	210		07040000401	Holder, Cassette
ļ	219	4-B	07B40283W01 43A12583W01	Roller. Eject
	220	5-B	43012303#01	Roller, Eject
	١,,,		43A63281F01	Roller, Plate Base
	221	5-C 5-C	44A82206F01	Rack
	222	1	41B10386W03	Spring, GR(Rack)
	223	5-C	43A10121W01	Roller, Eject(A)
	224	4-C	43A10121W01	Roller, Eject(B)
	225	4-D	43/10300WUT	NOTICE: LIJECT(D)
	226		04B41345P11	Washer, Lock(M1.2)
	227	4-D	43A12377W01	Roller. Eject(C)
	230	4-A	45B10376W01	Slider
	231	4-A 4-B	47A63278F01	Shaft. Slider
	231	4-B	01A10212W01	Assy. Riv Plate Base
	232	4-7	OINIOZIZWOI	hooy. Fire Frace Shoe
	233	4-C	41B10386W01	Spring, Eject Arm
	234	4-B	01A21754W01	Assy., Riv Eject
	204	1	OIABITOTHOI	Arm(A)
	235	3-B	01B30863W02	Assy., Pinch Roller
	236	4-C	45A10087W01	Lever, Pack In SW.
İ	237	4-F	44A20314W01	Pinion. Eject
	1	•	-	
	238	4-E	44A13617W01	Gear, Motor Idler(B)
	239	3-E	01A10201W02	Assy Riv Lever
				Pause
	240	2-E	45A40725W01	Lever, Play Sol
	241	-	76T10374W01	Chip
	242	1-G	04S40075G05	Washer, Polyslider
				(M2.1)
	1			
	243	1-G	01A10368W01	Assy., Flywheel
1	244	3-F	44A10141W01	Gear. Eject ldler
	245	3-E	01A10205W02	Assy., Riv Lever
				Clutch(A)
	246	3-F	44A10145W01	Gear. Eject
	247	2-B	01V23700W03	Assy., GR Control
				P.C. Board
ì				
				lel only O : For CR751 024 model only

				, , ,
		Not	e: The parts w	ithout parts list are not supplied.
ſ	Symbol	1 N-	Part No.	Description
	No.	dex	rait NO.	Description
Ì	248	3-G	43A41656W01	Spacer. UHMW
	249	3-F	44A11063W01	Gear. Bottom(A)
	250	3-F	44A11064W01	Gear. Bottom(B)
	251	3-G	34A11122W02	Washer, GR
	252	3-H	01A10210W02	Assy., Riv. Cover Bottom
	254	3-G	15B11065W01	Guide, Photo
	255	4~G	30T15126W01	Wire, PC Sensor(7P)
	258	4-D	45A10101W01	Lever, Eject Sol.
	259	3-D	49/10/31/01	Pulley, Idler
	260	4-E	44A10133W01	Gear. Take Up
١	ĺ			
ļ	261	3-E	44A10134W01	Gear, Sun
	262	3-E	44B10135W01	Gear. Fix
	. 263	3-E	44B21670W01	Gear. Pause
	264	3-F	44A10137W01	Gear, Pause Idler(A)
	265	3-D	44A10379W01	Gear. Pause Idler(B)
İ				
	266	3-E	44A10138W01	Gear, Reverse idler
1	267	3-E	44A10139W01	Gear, Motor Idler
	268	4-É	44A11062W01	Gear. Reel Idler
	269	1-G	42A10380W01	Belt, GR
	270	3-A	01V14700W68	Assy., GR Audio
				P.C. Board
	271	3-E	41A30475W01	Spring, Clutch
	272	3-F	04B41345P15	Washer, Lock(M1.2)
	273	4-D	04B41345P02	Washer, Lock(M1.7)
	274	3-H	04B41345P17	Washer, Lock(M1)
	275	2-D	04B41345P30	Washer, Lock (M3.1)
	276	,	04B41345P32	Washer, Lock(M3.1)
	277	4-E	04B41345P37	Washer, Lock(M2.1)
	278	3 2-A	30T15126W02	Wire, PC Joint 7P
	279	2-D	03S44205G78	Screw. Pan(M2x6)
	280	)	03S44205G30	Screw, Pan(M2.6x4)
		1		
	281	1 4-D	03S72235F53	Screw. Pan(M2x3.3)
	282	2 3-F	03A12132W02	Screw. Eject Clutch
				(M2x2.3)
	283		03S43997P64	Screw. Pan(M1.7x3)
	28	1	41A10384W01	Spring, Eject Clutch
	28	5 3-E	41A10385W01	Spring, Cas. Push
	1			
	28	i	41B10386W02	Spring, Sub Head
	28		41A10387W01	Spring. Pinch Roller
	28		43A12719W01	Roller, Pause
	28		01B30863W01	Assy. Pinch Roller
	29	0 2-B	84T25151W01	llead P.C. Board
	1			
	1 l	1	1	1

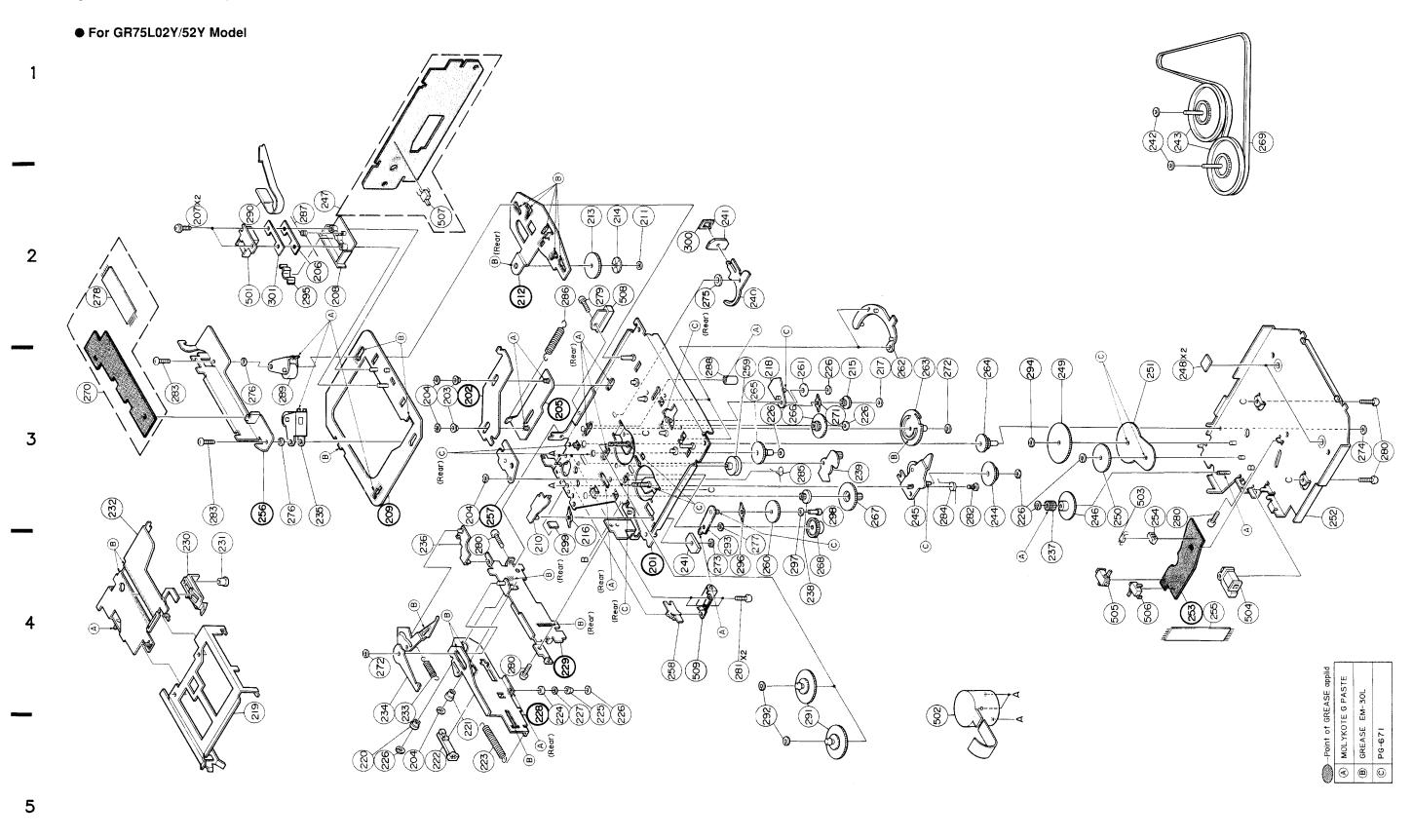
	nbol	IN-	Part No.	Description
<u> </u>	No.	dex	01705 (00100	Assy., Reel
1	291	4-E	01T35403W02	Washer, Lock(M1.7)
	292	4-E	04B41345P12	Assy., Riv Lever
1	293	4-D	01A30161W01	1
				Take Up
	294	3-F	04B41345P34	Washer, Lock(M1.2)
ŀ	295	2-B	26A20537W01	Shield, Plate
ļ				
	296	4-D	41A40910W01	Spring, Clutch
j	297	4-E	43A41543W01	Washer, Som (M1.2)
	298	3-E	47A41458W01	Pin. Take Up
	299	3-D	43A40388W01	Spacer, Polyslider
	300	2-D	43A41744W01	Lock, Solenoid
			Misc	ellaneous
	F0:	0.0	00715071101	Head
	501	2-B	88T15971W01	Assy. Motor(13.2V-105mA)
•	502	4-E	01V23900W60	
0	502	4-E	01V43400W37	Assy., Motor(13.2V-88mA)
	503	3-C	51T15144W01	Sensor. Photo
	504	4-G	01T10371W01	R/F Sol. Assy
	1			
	505	4-F	40T15382W01	SW., Detector (Pack Down)
	506	4-G	40T15382W01	SW. Detector (Metal)
	507	2-C	40T15222W01	SW., Detector (Pack In)
	508	2-D	01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy., Eject Solenoid
	1			
ļ				
1				
1				
		İ		
-				
		1		
1				
	- 1	1	1	

Notes : ◆ ; For GR75L020 model only ○ ; For GR75L02A model only Others ; Common

**- 23 -**

Notes : ◆ ; For GR75L020 model only ○ ; For GR75L02A model only
Others : Common

### Exploded View (GR-Y Series) (3/4)



- 25 - - - 26 - - - 26 - - - G | F | G |

### Cassette Deck Assembly Parts List (GR-Y Series) (3/4)

, apol	IN-	Part No.	Description
No.	dex 3-C	40.411.07.0UO1	Roll, Sub Head
203	3-70	43A11072W01	Washer, Lock(M1.2)
204	0.0	04B41345P01	Spring, Head
206	2-B	41A31756W01	• •
207		03S40019G03	Screw, F-Locks (M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol.
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A30480W01	Gear, Planet
216		41A10097W02	Spring. Clutch
217	3-E	04B41345P35	Washer, Lock(M1.7)
218	3-E	01A30824W01	Assy., Riv Lever
			Reverse
219	4-B	07B40283W01	Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222	1	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller, Eject (B)
220	4-0	43010300001	ROTTET F EJECT (D)
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller. Eject(C)
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft. Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	41B10386W01	Spring. Eject Arm
234	4-B	01A21754W01	Assy Riv Eject
			Arm(A)
235	3-B	01B30863W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever, Pack In SW.
237	4-F	44A20314W01	Pinion. Eject
238	4-E	44A13617W01	Gear. Motor Idler(B)
239	3-E	01A10201W02	Assy Riv Lever
		45440705000	Pause
240	2-D	45A40725W01	Lever, Play Sol.
241	1	76T10374W01	Chip
242	1-6	04S40075G05	Washer, Polyslider (M2.1)
243	1-G	01A10368W01	Assy Flywheel
244	3-F	44A10141W01	Gear. Eject Idler
245	3-E	01A10205W02	Assy Riv Lever
240		1	Clutch(A)
246	3-F	44A10145W01	Gear. Eject
247	2-B	01V23700W03	Assy GR Control
			P.C. Board

•	L.I	51	(G	<b>U-1 26</b>	#1162) (3/4)
	•		Note	e:The parts w	ithout parts list are not supplied.
	Sym	bo1	1 N-	Part No.	Description
		o.	dex		
		247		01V44200W74	Assy., GR Control P.C. Board
	1	248		43A41656W01	Spacer, UNMW
				44A11063W01	Gear. Bottom(A)
				44A11064W01	Gear. Bottom(B)
		251	3-G	34A11122W02	Washer. GR
		050	0 11	01410010000	Annu Diu Couon Bosson
		252 254	- 1	01A10210W02 15B11065W01	Assy., Riv. Cover Bottom Guide, Photo
				30T15126W01	Wire PC Sensor(7P)
				45A10101W01	Lever, Eject Sol.
		259	3-D	49A10131W01	Pulley, Idler
		200	"	45/10101401	Tuffey. Tuffer
		260	4-E	44A10133W01	Gear, Take Up
			- 1	44A10134W01	Gear, Sun
				44B10135W01	Gear, Fix
				44B21670W01	Gear, Pause
		264	1	44A10137W01	Gear Pause Idler(A)
		265	3-D	44A10379W01	Gear. Pause Idler(B)
		266	3-E	44A10138W01	Gear, Reverse Idler
		267	3-E	44A10139W01	Gear. Motor Idler
		268	4-E	44A11062W01	Gear. Reel Idler
		269	1-G	42A10380W01	Belt. GR
		270	3-A	01V33300W03	Assy., GR Audio
					P.C. Board
		271		41A30475W01	Spring, Clutch
		272	3-F		Washer, Lock(M1.2)
		273		04B41345P02	Washer, Lock(M1.7)
		274	3-11	04B41345P17	Washer, Lock(M1)
		076	0.0	0.404+9.45.090	Washer, Lock(M3.1)
		275 276	2-D 3-B	04B41345P30 04B41345P32	Washer, Lock(M3.1)
		277			Washer, Lock (M2.1)
		278	4-r. 2-A		Wire, PC Joint 7P
		279	2-A 2-D	03S44205G78	Screw. Pan(M2x6)
		213	2   0	00344200076	Screw Tan (M2x0)
		280		03S44205G30	Screw. Pan(M2.6x4)
	1	281	4-D	03S72235F53	Screw, Pan(M2x3.3)
		282	3-F	03A12132W02	Screw, Eject Clutch
					(M2x2.3)
		283		03S43997P64	Screw, Pan(M1.7x3)
		284	3-F	41A10384W01	Spring. Eject Clutch
		285	3-E	41A10385W01	Spring, Cas. Push
		286	2-C	41B10386W02	Spring. Sub Head
		287	2-B	41A10387W01	Spring. Pinch Roller
		288	3-D	43A12719W01	Roller, Pause
		289	3-B	01B30863W01	Assy., Pinch Roller
		000		0.4700000000000	Head D.C. Dog-d
		290	2-B	84T35271W01	llead P.C. Board
	1		1	}	

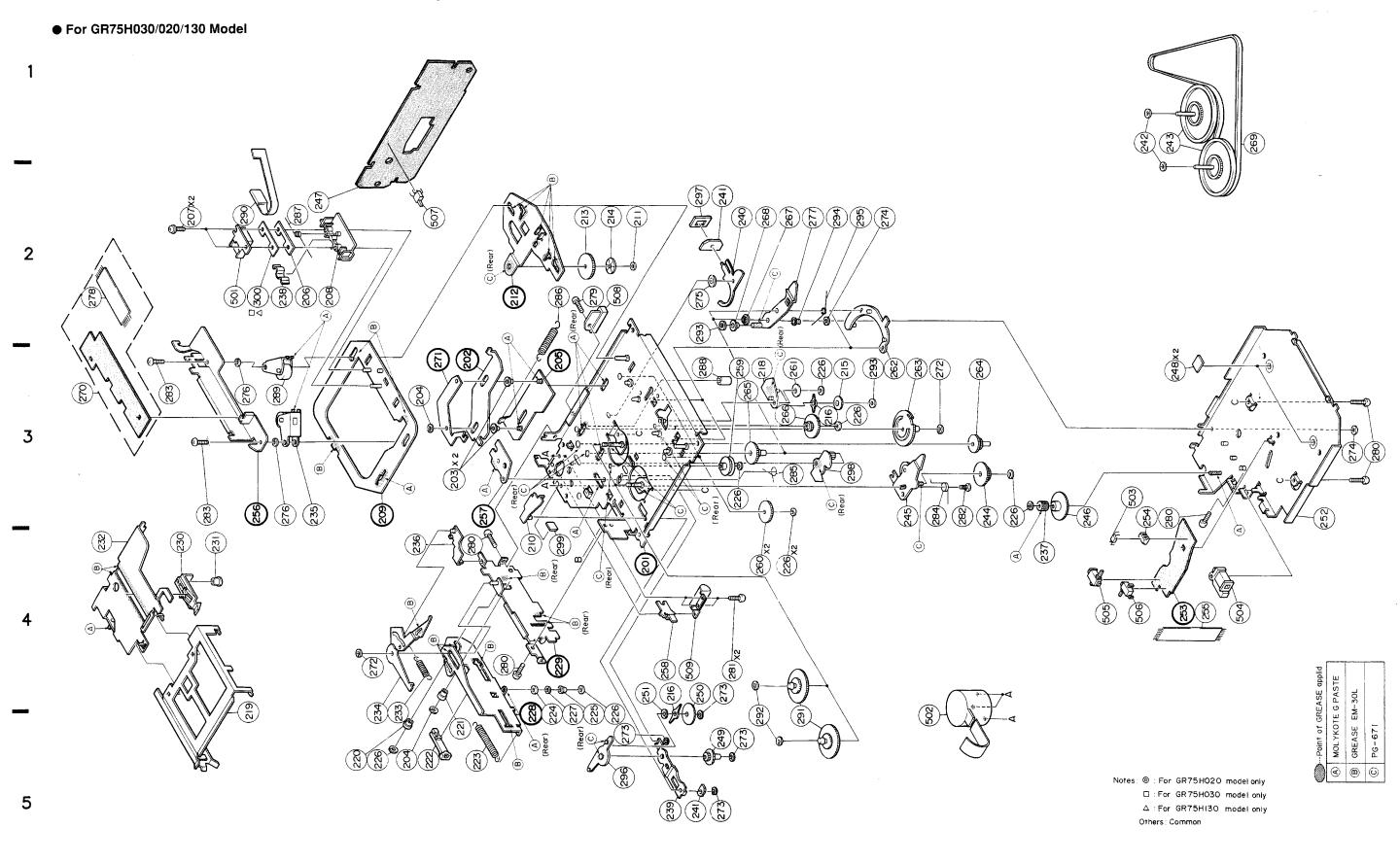
0	-bol	I N-		
	mbol		Part No.	Description
!	No.	dex	0.705.4001100	A Deal
[	291	4-E	01T35403W02	Assy. Reel
	292	4-E	04B41345P12	Washer, Lock(M1.7)
	293	4-D	01A30161W01	Assy., Riv Lever
l				Take Up
	294	3-F	04B41345P34	Washer, Lock(M1.2)
	295	2-B	26A20537W01	Shield, Plate
	200		Donie do Contract	
	000		41440010001	Spring, Clutch
l		4-D	41A40910W01	
	297	4-E	43A41543W01	Washer, Som(Mi.2)
ŀ	298	3-E	47A41458W01	Pin. Take Up
-	299	3-C	43A40388W01	Spacer. Polyslider
	300	2-D	43A41744W01	Lock, Solenoid
	301	2-B	41A41416W01	Spring, Head
	301	2-0	41741410401	opi mer neue
		ĺ		
			Misc	ellaneous
			MISC	erraneous
	501	2-B	88T15971W01	Head
☆	502	4-E	01V23900W60	Assy., Motor (13.2V-105mA)
		i		Assy., Motor (13.2V-80mA)
<b>\rightarrow</b>	502	4-E	01V44200W73	
	503	3-C	51T15144W01	Sensor. Photo
	504	4-G	01T10371W01	R/F Sol. Assy
	505	4-F	40T15382W01	SW., Detector (Pack Down)
	506	4-G	40T15382W01	SW. Detector (Metal)
		!	1	SW. Detector (Pack In)
	507	2-C	40T15222W01	
	508	2-D	01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy. Eject Solenoid
		1		
		1		
		1		
	Ì			
		1		
	1			
í				
	1	1	1	
	1	1	1	1

Notes:☆ ; For GR75L02Y model only ◇ ; For GR75L52Y model only

Others ; Common

Notes:☆: For GR75L02Y model only ◇: For GR75L52Y model only Others: Common

### Exploded View (GR75H Series) (4/4)



- 29 -B C D E F G T

Н

# Cassette Deck Assembly Parts List (GR75H Series) (4/4)

No.   dex   203   3-C   43A31453V01   04841345P01   Vasher. Lock (M1.2)   206   2-B   41A31756V01   Spring. Head   207   2-A   03A38021V01   Tape. Guide   210   4-C   01A30462V01   Assy Riv Lever R/F Sol   Vasher. Lock (M2.6)   211   2-D   04B41345P29   44A10285V01   Cear. Planet   215   3-E   44A30480V01   Gear. Planet   218   3-E   01A30824V01   Assy Riv Lever Reverse   218   3-E   07B40283V01   Holder. Cassette   Ho
204
206   2-B   41A31758V01   207   2-A   03A38021W01   208   2-B   43B12545W01   210   4-C   01A30462W01   210   2-D   04B41345P29   213   2-D   44A10295W01   215   3-E   44A30480W01   215   3-E   01A30824W01   216   219   4-B   07B40283W01   219   4-B   07B40283W01   221   5-C   43A63281F01   222   5-C   44B10386W03   223   5-C   41B10386W03   223   5-C   41B10386W03   224   5-C   43A10321W01   225   5-D   43A10321W01   226   226   4-A   01A10212W01   227   5-D   43A10377W01   233   5-C   41B10386W01   232   4-A   01A10212W01   233   5-C   41B10386W01   232   4-A   01A10212W01   233   5-C   41B10386W01   232   4-A   01A10212W01   233   5-C   41B10386W01   231   4-B   47A63278F01   232   4-A   01A10212W01   235   5-C   41B10386W01   236   4-C   01A3088W01   237   4-F   01A40024W01   235   3-B   01B3086W01   236   4-C   01A30883W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   238   3-C   01A30883W01   234   5-C   01A30883W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   238   4-C   01A30883W01   2389   2-B   01B30863W02   238   4-C   01A30883W01   2399   2-B   26A20537W01   238
207 2-A 03A38021W01 Screw. Flange(M2x4) 208 2-B 43B12545W01 Tape. Guide  210 4-C 01A30462W01 Assy Riv Lever R/F Sol 211 2-D 04B41345P29 Vasher. Lock(M2.6) 212 12 -D 14A10881W01 Reflector 215 3-E 44A30480W01 Gear. Planet  216 41A30475W01 Assy Riv Lever Reverse 219 4-B 07B40283W01 Holder. Cassette 219 4-B 07B40283W01 Holder. Cassette 219 4-B 07B40012W01 Holder. Cassette 220 5-B 43A12583W01 Roller. Eject 221 5-C 43A63281F01 Rack 222 5-C 44B2206F01 Rack 223 5-C 41B10386W03 Spring. GR(Rack) 223 5-C 41B10386W03 Spring. GR(Rack) 224 5-C 43A10121W01 Roller. Eject A 225 5-D 43A10360W01 Roller. Eject B 226 04B41345F11 Vasher. Lock(M1.2) 227 5-D 43A12377W01 Slider 231 4-B 47A63278F01 Assy Riv Plate Base 232 4-A 01A10212W01 Assy Riv Plate Base 233 5-C 41B10386W01 Spring. GR(Rack) 234 4-A 01A10212W01 Assy Riv Plate Base 235 5-C 41B10386W01 Spring. Eject Arm 236 4-A 01A10212W01 Assy Riv Plate Base 237 5-C 41B10386W01 Spring. Eject Arm 238 5-C 41B10386W01 Spring. Eject Arm 239 5-C 41B10386W01 Spring. Eject Arm 230 5-C 41B10386W01 Spring. Eject Arm 231 4-B 47A6323F11 Spring 232 4-A 01A10212W01 Assy Riv Plate Base 233 5-C 41B10386W01 Assy Riv Plate Base 234 5-C 01A30883W01 Assy Riv Eject Arm B 235 3-B 01B30863W02 Assy Riv Eject Arm B 236 4-C 45A10087W01 Assy Riv Eject Arm B 237 4-F 44A20314W01 Pinion. Eject 238 2-B 26A20537W01 Shield. plate
208   2-B   43B12545W01   Tape. Guide
210 4-C
211   2-D   04841345P29   Vasher. Lock(M2.6)   213   2-D   44A10295W01   214   2-D   14A10681W01   215   3-E   44A30480W01   Spring. Clutch   Assy Riv Lever Reverse   Holder. Cassette   Holder. Cass
213       2-D       44A10295W01       Gear. Sensor         214       2-D       14A10681W01       Reflector         215       3-E       44A30480W01       Gear. Planet         218       3-E       01A30824W01       Assy. Riv Lever Reverse         219       4-B       07B40283W01       Holder. Cassette         10       219       4-B       07B40283W01       Holder. Cassette         220       5-B       43A12583W01       Roller. Eject         221       5-C       43A62281F01       Roller. Plate Base         222       5-C       44A82206F01       Rack         222       5-C       44B10386W03       Spring. GR(Rack)         223       5-C       41B10386W03       Spring. GR(Rack)         224       5-C       43A10121W01       Roller. Eject A         225       5-D       43A10360W01       Roller. Eject B         226       23       4-A       45B10376W01       Roller. Eject C         230       4-A       45B10376W01       Roller. Eject C         231       4-B       47A63278F01       Shaft. Slider         232       4-A       01A10212W01       Assy Riv Plate Base         232       4-A
214 2-D 14A10681V01 215 3-E 44A30480V01 Gear. Planet  218 3-E 01A30824V01 Spring. Clutch 218 3-E 01A30824V01 Assy Riv Lever Reverse  □ 219 4-B 07B40283V01 Holder. Cassette  □ 219 4-B 07B40283V01 Holder. Cassette  220 5-B 43A12583W01 Roller. Eject 221 5-C 43A63281F01 Roller. Plate Base 222 5-C 44A82206F01 Rack 223 5-C 41B10386W03 Spring. GR(Rack)  □ 223 5-C 41B10386W03 Spring. GR(Rack)  □ 223 5-C 43B10386W04 Spring. GR(Rack)  224 5-C 43A10121W01 Roller. Eject A 225 5-D 43A10360W01 Roller. Eject B 226 04B41345P11 Washer. Lock(M1.2) 227 5-D 43A12377W01 Roller. Eject C  230 4-A 45B10376W01 Slider 231 4-B 47A63278F01 Shaft. Slider 232 4-A 01A10212W01 Assy Riv Plate Base 232 4-A 01A10212W01 Assy Riv Plate Base 233 5-C 41B10386W01 Spring. Eject Arm 233 5-C 41B10386W01 Spring. Eject Arm 233 5-C 41B10386W01 Spring. Eject Arm 233 5-C 01A30883W01 Assy Riv Eject Arm B 234 5-C 01A30883W01 Assy Riv Eject Arm B 235 3-B 01830863W02 Assy Riv Eject Arm B 236 4-C 45A10087W01 Lever Pack In SW 237 4-F 44A20314W01 238 2-B 26A20537W01 Shield. plate
215 3-E 44A30480W01 Gear. Planet  216
216
218   3-E   01A30824W01   Assy Riv Lever Reverse   Holder. Cassette   Holder. Casset
218   3-E   01A30824W01   Assy Riv Lever Reverse   Holder. Cassette   Holder. Casset
◎ 219 4-B         07B40283W01         Holder. Cassette           □ 219 4-B         07B40283W01         Holder. Cassette           △ 219 4-B         07B40012W01         Holder. Cassette           □ 220 5-B         43A12583W01         Roller. Eject           221 5-C         43A63281F01         Roller. Plate Base           222 5-C         44882206F01         Rack           ⑤ 223 5-C         41B10386W03         Spring. GR(Rack)           □ 223 5-C         41B10386W04         Spring. GR(Rack)           □ 224 5-C         43A10121W01         Roller. Eject A           Roller. Eject B         A3A10360W01         Roller. Eject B           □ 225 5-D         43A10386W04         Spring. GR(Rack)           □ 226
□ 219
△       219       4-B       07B40012W01       Holder. Cassette         220       5-B       43A12583W01       Roller. Eject         221       5-C       43A63281F01       Roller. Plate Base         222       5-C       44B10386W03       Spring. GR(Rack)         □       223       5-C       41B10386W03       Spring. GR(Rack)         △       223       5-C       41B10386W04       Spring. GR(Rack)         △       224       5-C       43A10121W01       Roller. Eject A         №       224       5-C       43A10360W01       Roller. Eject B         №       226       04B41345P11       Washer. Lock(M1.2)         №       231       4-B       47A63278F01       Shaft. Slider         231       4-B       47A63278F01       Shaft. Slider         №       232       4-A       01A10212W01       Assy Riv Plate Base         □       232       4-A       01A40024W01       Assy Riv Plate Base         □       233       5-C       41B10386W01       Spring. Eject Arm         □       233       5-C       41B63283F11       Spring. Eject Arm         □       234       5-C       01A30883W01       Assy Riv Eject Ar
220 5-B 43A12583W01 Roller. Eject 221 5-C 43A63281F01 Roller. Plate Base 222 5-C 44A82206F01 Rack  ② 223 5-C 41B10386W03 Spring. GR(Rack)  □ 223 5-C 41B10386W04 Spring. GR(Rack)  △ 223 5-C 41B10386W04 Spring. GR(Rack)  △ 224 5-C 43A10121W01 Roller. Eject A 225 5-D 43A10360W01 Roller. Eject B 226 04B41345P11 Washer. Lock(M1.2) 227 5-D 43A12377W01 Roller. Eject C  230 4-A 45B10376W01 Slider 231 4-B 47A63278F01 Shaft. Slider 232 4-A 01A10212W01 Assy Riv Plate Base 232 4-A 01A40024W01 Assy Riv Plate Base 232 4-A 01A40024W01 Spring. Eject Arm 233 5-C 41B10386W01 Spring. Eject Arm 233 5-C 41B63283F11 Spring 234 5-C 01A30883W01 Assy Riv Eject Arm B 234 5-C 01A30883W01 Assy Riv Eject Arm B 235 3-B 01B30863W02 Assy Riv Eject Arm B 236 4-C 45A10087W01 Lever Pack In SW 237 4-F 44A20314W01 Pinion. Eject 238 2-B 26A20537W01 Shield. plate
221   5-C
221   5-C
222   5-C
□       223       5-C       41B10386W03       Spring, GR(Rack)         △       223       5-C       41B10386W04       Spring, GR(Rack)         224       5-C       43A10121W01       Roller, Eject A         225       5-D       43A10360W01       Roller, Eject B         226       04B41345P11       Washer, Lock(M1.2)         230       4-A       45B10376W01       Slider         231       4-B       47A63278F01       Shaft, Slider         232       4-A       01A10212W01       Assy., Riv Plate Base         □       232       4-A       01A400212W01       Assy., Riv Plate Base         □       233       5-C       41B10386W01       Spring, Eject Arm         □       233       5-C       41B10386W01       Spring, Eject Arm         □       233       5-C       41B63283F11       Spring         □       234       5-C       01A30883W01       Assy., Riv Eject Arm B         □       234       5-C       01A30883W01       Assy., Riv Eject Arm B         □       235       3-B       01B30863W02       Assy., Riv Eject Arm D         236       4-C       45A10087W01       Lever Pack In SW         Pinion, Eject
□       223       5-C       41B10386W03       Spring, GR(Rack)         △       223       5-C       41B10386W04       Spring, GR(Rack)         224       5-C       43A10121W01       Roller, Eject A         225       5-D       43A10360W01       Roller, Eject B         226       04B41345P11       Washer, Lock(M1.2)         230       4-A       45B10376W01       Slider         231       4-B       47A63278F01       Shaft, Slider         232       4-A       01A10212W01       Assy., Riv Plate Base         □       232       4-A       01A400212W01       Assy., Riv Plate Base         □       233       5-C       41B10386W01       Spring, Eject Arm         □       233       5-C       41B10386W01       Spring, Eject Arm         □       233       5-C       41B63283F11       Spring         □       234       5-C       01A30883W01       Assy., Riv Eject Arm B         □       234       5-C       01A30883W01       Assy., Riv Eject Arm B         □       235       3-B       01B30863W02       Assy., Riv Eject Arm D         236       4-C       45A10087W01       Lever Pack In SW         Pinion, Eject
224   5-C   43A10121W01   Roller, Eject A
224   5-C   43A10121W01   Roller, Eject A   225   5-D   43A10360W01   Roller, Eject B   226   248A1345P11   Washer, Lock(M1.2)   Roller, Eject C   230   4-A   45B10376W01   Slider   231   4-B   47A63278F01   Shaft, Slider   232   4-A   01A10212W01   Assy., Riv Plate Base   232   4-A   01A10212W01   Assy., Riv Plate Base   232   4-A   01A40024W01   Assy., Riv Plate Base   232   4-A   01A40024W01   Assy., Riv Plate Base   233   5-C   41B10386W01   Spring, Eject Arm   233   5-C   41B10386W01   Spring, Eject Arm   Spring   Eject Arm   Spring   234   5-C   01A30883W01   Assy., Riv Eject Arm   B   234   5-C   01A30883W01   Assy., Riv Eject Arm   B   234   5-C   01A30883W01   Assy., Riv Eject Arm   B   235   3-B   01B30863W02   Assy., Riv Eject Arm   D   Assy., Pinch Roller   Lever Pack In SW   Pinion, Eject   Shield, plate
225
226
227   5-D   43A12377W01   Roller, Eject C
230 4-A 45B10376W01 Slider 231 4-B 47A63278F01 Shaft. Slider  232 4-A 01A10212W01 Assy Riv Plate Base  □ 232 4-A 01A40024W01 Assy Riv Plate Base  □ 233 5-C 41B10386W01 Spring. Eject Arm  □ 233 5-C 41B10386W01 Spring. Eject Arm  □ 233 5-C 41B63283F11 Spring  □ 234 5-C 01A30883W01 Assy Riv Eject Arm B  □ 234 5-C 01A30883W01 Assy Riv Eject Arm B  □ 234 5-C 01A40021W01 Assy Riv Eject Arm B  □ 235 3-B 01B30863W02 Assy Riv Eject Arm D  236 4-C 45A10087W01 Assy Riv Eject Arm D  237 4-F 44A20314W01 238 2-B 26A20537W01 Shield. plate
231
231 4-B 47A63278F01 Shaft Slider  232 4-A 01A10212W01 Assy. Riv Plate Base  △ 232 4-A 01A40024W01 Assy. Riv Plate Base  △ 233 5-C 41B10386W01 Spring Eject Arm  □ 233 5-C 41B63283F11 Spring  △ 234 5-C 01A30883W01 Assy. Riv Eject Arm B  □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B  □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B  □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B  □ 235 3-B 01B30863W02 Assy. Riv Eject Arm D  236 4-C 45A10087W01 Lever Pack In SW  Pinion Eject  Shield Plate
◎       232       4-A       01A10212W01       Assy Riv Plate Base         □       232       4-A       01A10212W01       Assy Riv Plate Base         □       232       4-A       01A40024W01       Assy Riv Plate Base         □       233       5-C       41B10386W01       Spring. Eject Arm         □       233       5-C       41B63283F11       Spring. Eject Arm         □       234       5-C       01A30883W01       Assy Riv Eject Arm B         □       234       5-C       01A30883W01       Assy Riv Eject Arm B         □       234       5-C       01A40021W01       Assy Riv Eject Arm B         □       235       3-B       01B30863W02       Assy Riv Eject Arm D         236       4-C       45A10087W01       Lever Pack In SW         Pinion. Eject       Shield. plate
□ 232 4-A 01A10212W01 Assy. Riv Plate Base  □ 233 5-C 41B10386W01 Spring. Eject Arm □ 233 5-C 41B63283F11 Spring □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B □ 235 3-B 01B30863W02 Assy. Riv Eject Arm D □ 236 4-C 45A10087W01 Lever Pack In SW □ 237 4-F 44A20314W01 Pinion. Eject □ 238 2-B 26A20537W01 Shield. plate
△       232       4-A       01A40024W01       Assy Riv Plate Base         ◎       233       5-C       41B10386W01       Spring. Eject Arm         △       233       5-C       41B63283F11       Spring. Eject Arm         △       234       5-C       01A30883W01       Assy Riv Eject Arm B         △       234       5-C       01A30883W01       Assy Riv Eject Arm B         △       234       5-C       01A40021W01       Assy Riv Eject Arm B         △       234       5-C       01A40021W01       Assy Riv Eject Arm B         △       235       3-B       01B30863W02       Assy Pinch Roller         236       4-C       45A10087W01       Lever Pack In SW         Pinion. Eject       Shield. plate
□ 233 5-C 41B10386W01 Spring. Eject Arm  □ 234 5-C 01A30883W01 Assy Riv Eject Arm B  □ 234 5-C 01A40021W01 Assy Riv Eject Arm B  □ 234 5-C 01A40021W01 Assy Riv Eject Arm D  □ 235 3-B 01B30863W02 Assy Pinch Roller  □ 236 4-C 45A10087W01 Lever Pack In SW  □ 237 4-F 44A20314W01 Pinion. Eject  □ 238 2-B 26A20537W01 Shield. plate
□ 233 5-C 41B10386W01 Spring. Eject Arm  □ 234 5-C 01A30883W01 Assy Riv Eject Arm B  □ 234 5-C 01A40021W01 Assy Riv Eject Arm B  □ 235 3-B 01B30863W02 Assy Riv Eject Arm D  □ 236 4-C 45A10087W01 Lever Pack In SW  □ 237 4-F 44A20314W01 Pinion. Eject  □ 238 2-B 26A20537W01 Shield. plate
△       233       5-C       41B63283F11       Spring         ⊚       234       5-C       01A30883W01       Assy Riv Eject Arm B         □       234       5-C       01A30883W01       Assy Riv Eject Arm B         △       234       5-C       01A40021W01       Assy Riv Eject Arm D         235       3-B       01B30863W02       Assy Pinch Roller         236       4-C       45A10087W01       Lever Pack In SW         237       4-F       44A20314W01       Pinion. Eject         238       2-B       26A20537W01       Shield. plate
<ul> <li>② 234 5-C 01A30883W01 Assy Riv Eject Arm B</li> <li>□ 234 5-C 01A30883W01 Assy Riv Eject Arm B</li> <li>△ 234 5-C 01A40021W01 Assy Riv Eject Arm D</li> <li>□ 235 3-B 01B30863W02 Assy Pinch Roller Lever Pack In SW</li> <li>□ 237 4-F 44A20314W01 Pinion. Eject</li> <li>□ 238 2-B 26A20537W01 Shield. plate</li> </ul>
□ 234 5-C 01A30883W01 Assy Riv Eject Arm B  △ 234 5-C 01A40021W01 Assy Riv Eject Arm D  235 3-B 01B30863W02 Assy Pinch Roller  236 4-C 45A10087W01 Lever Pack In SW  Pinion. Eject  238 2-B 26A20537W01 Shield. plate
△ 234 5-C 01A40021W01 Assy. Riv Eject Arm D 235 3-B 01B30863W02 Assy. Pinch Roller 236 4-C 45A10087W01 Lever Pack In SW 237 4-F 44A20314W01 Pinion. Eject 238 2-B 26A20537W01 Shield. plate
235
235
236
237   4-F   44A20314W01   Pinion. Eject   Shield. plate
238 2-B 26A20537W01 Shield plate
239 5-D 01A40881W01 Assy., Riv RF Link
239   5-D   01A40881W01   Assy., Riv RF Link
The land the second sec
240 2-D 45A40725W01 Lever, Play Sol.
241 76T10374W01 Chip
242   1-G   04S40075G05   Washer Polyslider(M2.1)
243 1-G 01A30488W01 Assy. Flywheel
Notes: © ; For GR75H020 model only ☐ ; For GR75H030 model only

		Not	e:The parts w	ithout parts list are not supplied.
	mbol No.	lN- dex	Part No.	Description
	NO. 244	3-F	44A10141W01	Gear, Eject Idler
	245	3-E	01A10205W02	Assy. Riv Lever
	570	0.15	21110200402	Clutch A
	246	3-F	44A10145W01	Gear, Eject
	247	2-B	01733200842	Assy., GR Control
	241	20	01100000#40	P.C. Board
	248	3-G	43A41656W01	Spacer, UHMW
	640	0.0	TOURTOON	OFFICE COMMISSION
	249	5-D	44A30481W01	Gear. RF Idler
	250	4-D	44A30483W01	Gear, RF
	1	4-D	04S40075G58	Washer, Polyslider (M2.1)
	252	3-H	01A30463W01	Assy., Riv. Cover Bottom
	254	3-G	15B11065W01	Guide, Photo
	255	4-G	30T15126W01	Wire. PC Sensor(7P)
	258	4-D	45A10101W01	Lever, Eject Sol
	259	3-D	49A30476W01	Pulley, Idler
	260	4-E	44A30482W01	Gear. Take Up
	261	3-E	44A30478W01	Gear. Sun
	262	3-E	44B10135W01	Gear. Fix
	263	3-E	44B30484W01	Gear. Pause
	264	3-F	44A10137W01	Gear. Pause Idler A
	265	3-E	44A30486W01	Gear. Pause Idler B
	266	3-E	44A30479W01	Gear. Reverse Idler
				-
	267	2-E	44A30485W01	Gear. Motor Idler
	268	2-E	44A30487W01	Gear. Motor Clutch
	269	1-G	42A31850W01	Belt, GR
0	270	3-A	01V43400W38	Assy., GR Audio P.C. Board
	270	3-1	01733300803	Assy., GR Audio
				P.C. Board
Δ	270	3-A	01733300%03	Assy., GR Audio P.C. Board
	272	3-F	04B41345P15	Washer, Lock(M1.2)
	273		04B41345P02	Washer, Lock(M1.7)
	274	3-H	04B41345P17	Washer, Lock(M1)
	275	2-D	04B41345P30	Washer, Lock(M3.1)
ļ	276	3-B	04B41345P32	Washer, Lock (M3.1)
	277	2-E	01A30464W01	Assy., Riv Play Clutch
	278	2-A	30T15126W02	Wire, PC Joint 7P
	279	2-D	03S44205G78	Screw. Pan(M2x6)
	280		03S44205G30	Screw, Pan(M2.6x4)
	281	4-D	03S72235F53	Screw, Pan(M2x3.3)
	282	3-F	03812233F33	Screw, Eject Clutch(M2x2.3)
	283	0-1	03S43997P64	Screw, Pan(M1.7x3)
	284	3-F	41A10384W01	Spring, Eject Clutch
	285	3-E	41A10385W01	Spring, Cas Push
	230		IMIOSOUROI	5,110, 540, 450,
	286	2-C	41B10386W02	Spring, Sub Head
	287	2-B	41A10387W01	Spring, Pinch Roller
	288	3-D	43A12719W01	Roller, Pause
	289	3-B	01B30863W01	Assy., Pinch Roller
0	290	2-B	84T25151W01	Head P.C. Board
<u>~</u>	, - : -	1 - 5		<del></del>

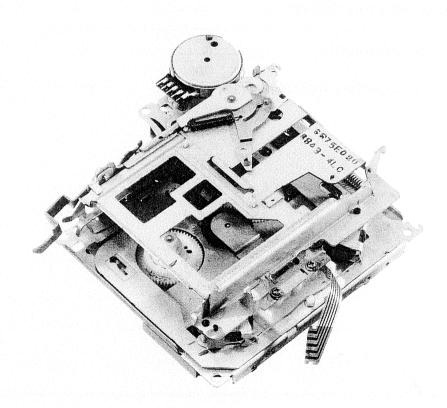
	mbol No	IN-	Part No.	Description				
	No. 290	dex 2-B	84T35271W01	Head P.C. Board				
Δ	290	2-B 2-B	84T35271W01	Head P.C. Board				
	291	5-E	01T35403W01	Assy. Reel				
	292	5-E	04B41345P12	Washer, Lock(Mi.7)				
	293	2-D	04B41345P35	Washer, Lock(M1.7)				
			04541040100	Washer Floor (HI.1)				
	294	2-E	43A30827W01	Spacer, Motor Idler				
	295	2-E	41A30490W01	Spring, Play Clutch				
	296	5-D	01A40882W01	Assy., Riv Lever RF				
	297	2-D	34A48030W01	Washer, Solenoid				
	298	3-E	01A10201W02	Assy, Riv Lever Pause				
	299	4-C	43A40388W01	Spacer, Polyslider				
	300	2-B	41A41416\01	Spring, Head				
Δ	300	2-B	41A41416W01	Spring, Head				
	ļ							
	<u> </u>	1	L					
			Misce	ellaneous				
0	501	2-B	88T15971W01	Head				
	501	2-B	88T35406W01	Head				
Δ	501	2-B	88T35406W01	Head				
	502	5-F	01V41100W72	Assy., Motor(11.5v-85mA)				
	503	3-C	51T15144W01	Sensor, Photo				
	504	4-G	01T10371W01	R/F Sol. Assy.				
	505	4-F	40T15382W01	SW Detector				
				(Pack Down)				
	506	4-G	40T15382W01	SW., Detector(Metal)				
	507	2-C	40T15222W01	SW., Detector (Pack In)				
	508	2-D	01T15249W01	Assy., Play Solenoid				
ł								
	509	4-D	01T10369W02	Assy., Eject Solenoid				
ĺ								
			j					
	,							
lote	es:©;	For GI	R75H020 model	only : For GR75H030 model only				
	Δ;	For G	R75H130 model d	only Others: Common — 32				

x4206

# 1LPINE SERVICE MANUAL

# Cassette Deck Mechanism

# ADDENDUM & REVISED (III)



GR/GR-Y SERIES

Contents —	_
List of Usable Lock Washers	3
List of Usable Oil	3
List of Usable Jigs	3
Disassembly, Assembly and Replacement of Functional Parts	16
Exploded View (1/3)	18
Cassette Deck Assembly Parts List (1/3)	20
Exploded View (2/3)	22
Cassette Deck Assembly Parts List (2/3)	24
Exploded View (GR-Y Series) (3/3)	26
Cassette Deck Assembly Parts List (GR-Y Series) (3/3)	28

**GR** Series

Memo

### **List of Usable Lock Washers**

	· · · · · · · · · · · · · · · · · · ·			····		
			QUANTITY			
	SIZE	PARTS NO.	GR75E	GR75L	GR-Y	
			Series	Series	Series	
1	(M1.2 × 3.5 × 0.25)	04B41345P01	8	7	6	
2	$(M1.7 \times 3.5 \times 0.25)$	04B41345P02	1	1	2	
3	$(M2.1 \times 5 \times 0.25)$	04B41345P06	1	1	0	
4	$(M1.2 \times 2.5 \times 0.25)$	04B41345P11	7	7	8	
5	$(M1.7 \times 3.5 \times 0.35)$	04B41345P12	2	2	2	
6	$(M1.2 \times 3.5 \times 0.35)$	04B41345P15	1	1	1	
7	$(M1\times2.5\times0.25)$	04B41345P17	1	1	1	
8	$(M2.6\times5\times0.25)$	04B41345P29	11	1	0	
9	$(M3.1 \times 8 \times 0.05)$	04B41345P30	1	1	1	
10	$(M1.7\times3\times0.25)$	04B41345P31	1	1	1	
11	$(M3.1 \times 5 \times 0.35)$	04B41345P32	2	2	2	
12	$(M1.2 \times 2.5 \times 0.3)$	04B41345P34	1	1	0	
13	$(M2.1\times4\times0.25)$	04B41345P37	0	0	1	
14	$(M2.6 \times 4.7 \times 0.25)$	04B41345P38	0	0	1	

### **List of Usable Oil**

- Molykote E paste
   Grease EM-30L
- 3) Grease FLOIL 425A

### **List of Usable Jigs**

- GR bottom gear jig (Part No. 44A20788W01)
   Head height adjustment gauge Al-500 (Part No. Al-500)

# Disassembly, Assembly and Replacement of Functional Parts

### 1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws (2) as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position (A)-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction (A)-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction (A)-3 as shown in Figure 2.
- (8) Pull the door pin in the direction (A)-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10)Pull the automatic metal lever in the direction (A)-5 and the RF solenoid chip in the direction (A)-6 as shown in Figure 3.
- (11) Insert the hooks of the bottom cover into the chassis in the direction (a)-7, and then join the part (a)-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
  - If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12)Since the hooks marked (a)-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole (a)-9, and fix it turning the jig slightly in the direction (a)-11.

  Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.

  After 2 to 3 turns, it will click into place.
- (13) Fix the screws and the lock washer that have been removed.

(Refer to Figures 4 and 5.)

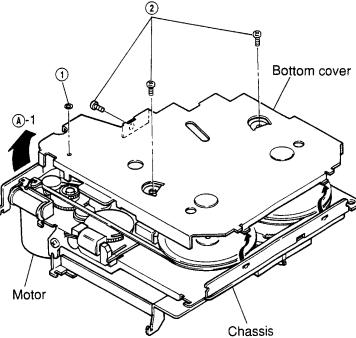


Figure 1

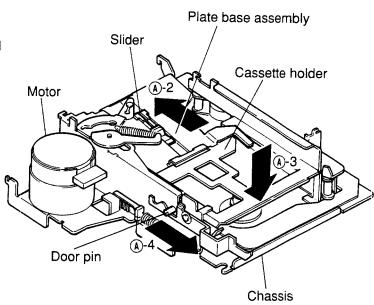


Figure 2

(14)Insert the jig into the hole (a)-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction (a)-10 with the finger.

Then the eject operation is completed.

Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

Note: Do not reuse the used lock washers for mounting.

When turning the mechanism, be careful not

to drop the gear and the flywheel.

Fasten the three screws with a fastening torque of 6 kg.cm.

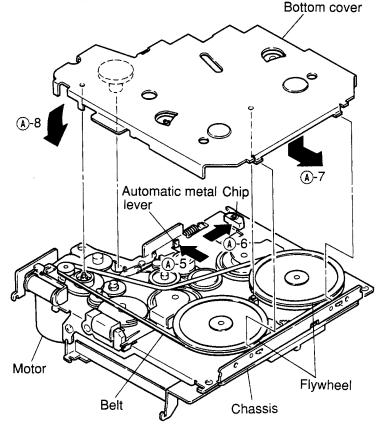


Figure 3

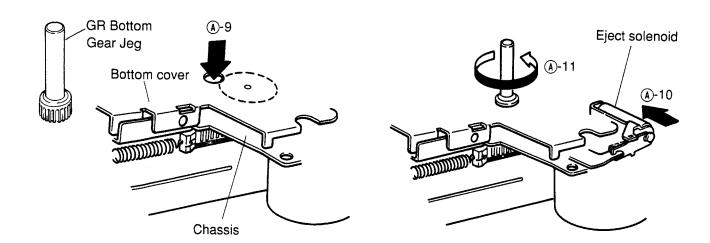


Figure 4

Figure 5

## 2. Replacement of the bottom cover mounting parts

- a. Replacement of the eject gear
  - (1) Remove M1.2 lock washer ③ as shown in Figure 6.
  - (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
  - (3) Apply the molykote E paste to the section ®-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

**Note:** Do not reuse the used lock washers for remounting.

Take care to avoid damage by piercing and tearing.

- b. Replacement of the RF solenoid
  - (1) Remove two solders (4) and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
  - (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder 4, set the temperature of the soldering iron to 350° ± 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

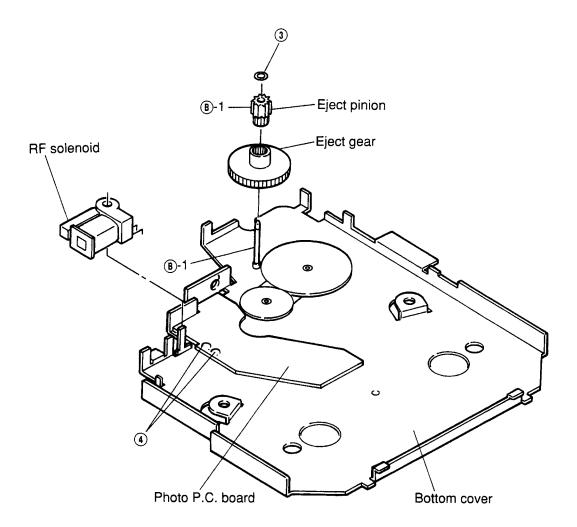


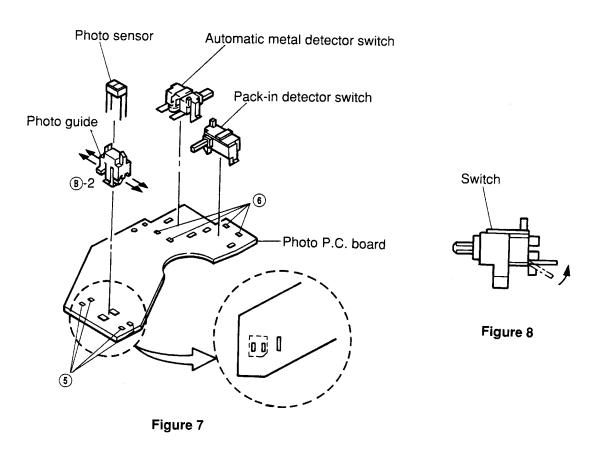
Figure 6

- c. Replacement of the photo sensor
  - (1) Remove four solders (5) as shown in Figure 7.
  - (2) Remove the photo guide together with the photo sensor from the photo P.C. board as shown in Figure 7.
  - (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked (B)-2 as shown in Figure 7.
- (4) Insert the photo guide into the P.C. board and solder the legs so that the photo sensor is set as indicated by [[11]] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to  $350^{\circ} \pm 10^{\circ}$  and the soldering time to 1-3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

- d. Replacement of the detector switch (Automatic metal pack-in)
- (1) Remove 4 solders (a) with which the switch is fixed as shown in Figure 7.
- (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo P.C. board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.



### 3. Replacement of the mounting parts on the rear of the main chassis

- a. Replacement of the belt
- After removing the bottom cover, remove the belt.
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

**Note:** When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

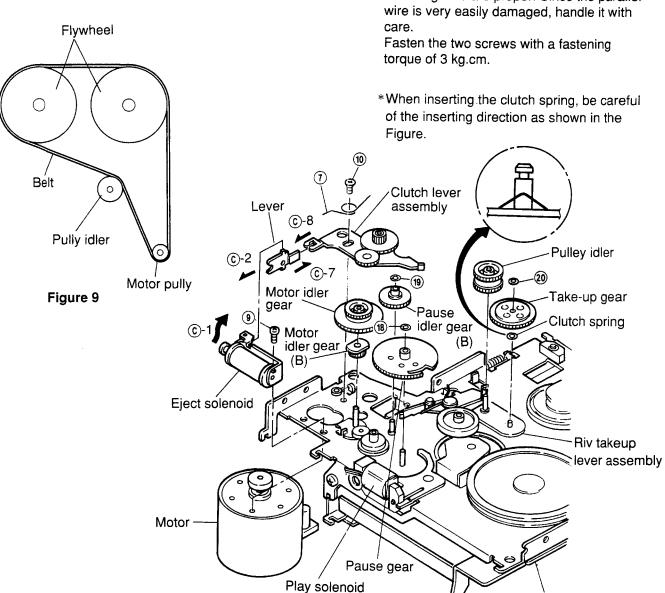


Figure 10

Chassis

- b. Replacement of the motor
  - (1) After removing the belt, remove spring ⑦ as shown in Figure 10.
  - (2) Remove solder (8)-1, and remove the parallel wire (5P) from the control P.C. board as shown in Figure 11.
  - (3) Remove two screws (3) and (10), and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
  - (4) Mount the new motor following the removal steps in the reverse order.

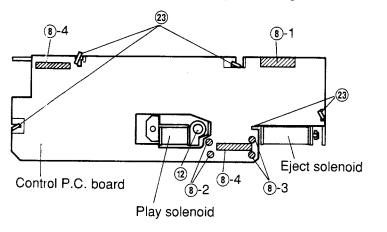
**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care.

- c. Replacement of the flywheels
  - (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer ① located between the flywheel and the chassis. (Refer to Figure 12.)
  - (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.
- d. Replacement of the play solenoid
  - (1) Remove the two solders (8)-2 as shown in Figure 11.
- (2) Remove one screw (2) and remove the solenoid as shown in Figure 11.
- (3) Mount the new solenoid following the removal steps in the reverse order.

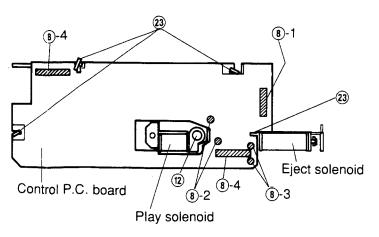
**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

- e. Replacement of the eject solenoid
  - (1) Remove two solders (8)-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
- (2) Remove screw (and remove the play solenoid as shown in Figure 10.
- (3) Align position ©-1 of the new solenoid with position ©-2 of the lever and fasten the screw as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solder wires are not insulated, do not let them cross each other.



[For GR75E020, GR75E010, GR75E01A, GR75E01C models]



[For GR75L020, GR75L010 models]

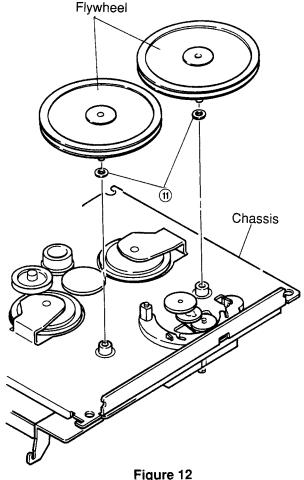


Figure 11



#### f. Replacement of gears

- (f-1) Replacement of the reverse idler gear
  - (1) Remove M1.2 lock washer ③, pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
  - (2) Remount following the removal steps in the reverse order.

### (f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer (4), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

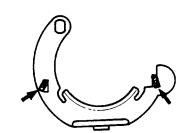
#### (f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis (§) and remove the section (©)-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ©-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.
- (f-4) Replacement of the reverse lever assembly and planet gear
  - (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
  - (2) Remove M1.7 lock washer (6) and remove the planet gear as shown in Figure 14.
  - (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

#### Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever moves in the directions marked ©-5 when the reverse gear is turned clockwise and counterclockwise.

\*After mounting the fixing gear, bend the claws (5) into the form of as shown in the Figure.



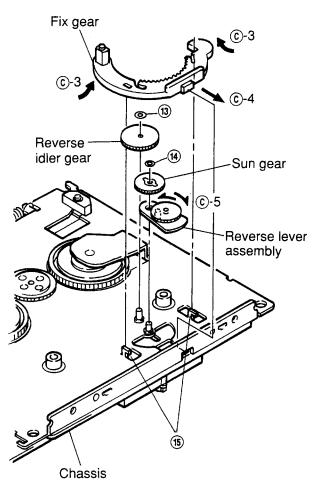


Figure 13

- (f-5) Replacement of the clutch lever assembly and eject idler gear
- (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
- (2) Remove M1.2 lock washer ① and remove the eject idler gear as shown in Figure 15.
- (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (FLOIL 425A) to the position ©-6 as shown in Figure 15. Align the position ©-7 with the position ©-8 and mount the clutch lever as shown in Figures 10 and 15.

### (f-6) Replacement of the pause gear

- (1) Remove M1.2 lock washer (18) and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear following the removal steps in the reverse order.

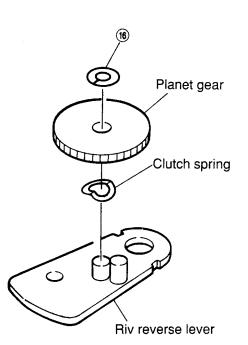
- (f-7) Replacement of the pause idler gear (B)
- (1) After removing the motor and the motor idler gear, remove M1.2 lock washer (9) and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear by following the removal steps in the reverse order.

### (f-8) Replacement of the take-up gear

- (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer (2) by pulling it up from the stud of the riv take-up lever assembly as shown in Figure 10.
- (2) Remount the take-up gear following the removal steps in the reverse order.

#### Notes on f:

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.



[Disassembly Reverse Lever Assembly]

Figure 14

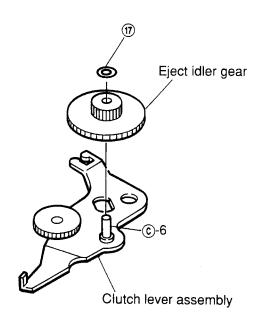


Figure 15

### 4. Replacement of the parts mounted on the front of the chassis

- a. Replacement of the audio P.C. board
  - (1) Remove two solders ② and remove the parallel wire (7P) and the head P.C. board as shown in Figure 16.
  - (2) Adjust the two claws ② to the rectangular holes on the P.C. board and remove the P.C. board as shown in Figure 16.
  - (3) After replacement, mount the new P.C. board following the removal steps in the reverse order.

Note: The head P.C. board and the parallel wire are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board.

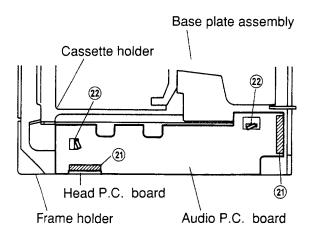


Figure 16

- b. Replacement of the control P.C. board
  - (1) Remove seven solders (8) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
  - (2) Remove five claws ② and remove the P.C. board as shown in Figure 11. [For GR75E020, GR75E010, GR75E01A, GR75E01C models] Remove four claws ② and remove the P.C. board as shown in Figure 11. [For GR75L020, GR75L010 models]
  - (3) After replacing the old P.C. board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

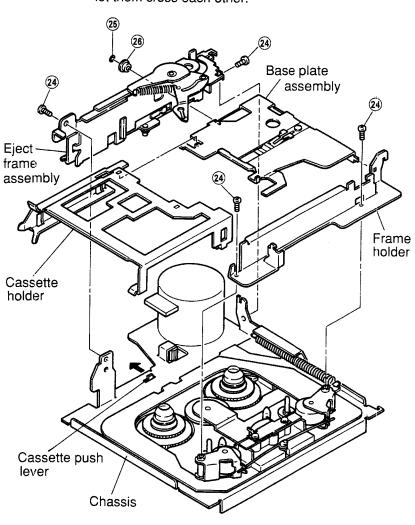


Figure 17

- c. Disassembly and assembly of the cassette holder
- (1) Remove four screws (24) and remove the eject frame assembly and the frame holder as shown in Figure 17.
- (2) Remove M1.2 lock washer (25) and plate base roller (26) and remove the cassette holder and the base plate assembly as shown in Figure 17.
- (3) Remount them following the removal steps in the reverse order.

Notes: 1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).

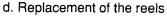
- 2. When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
- When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.

 Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

Eject arm

Base plate

Slider



- (1) Remove M1.7 two lock washers (26) (Refer to figure 19).
- (2) Move the select lever in the direction marked ①-1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
- (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-111.

**Note:** Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

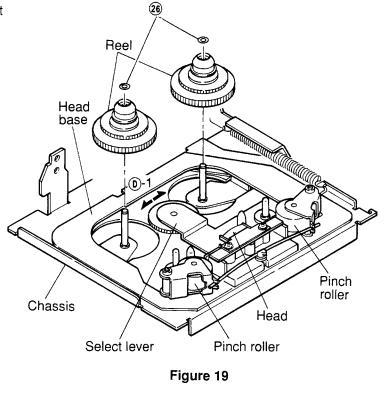
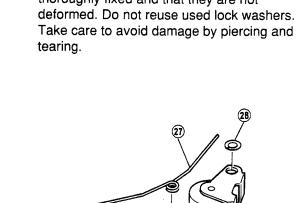


Figure 18



- e. Replacement of the pinch rollers
- (1) Remove pinch roller spring ② as shown in Figure 20.
- (2) Remove M3.1 two lock washers (28) and remove the pinch roller as shown in Figure 20.
- (3) Mount the pinch rollers following the removal steps in the reverse order. Apply insulation coating to the position (D-2 of the pinch roller as shown in Figure 20.

**Note:** Make sure that the pinch rollers are thoroughly fixed and that they are not tearing.



f. Replacement of the head

- (1) After removing the pinch roller spring, remove two screws (29) as shown in Figure 21.
- (2) Remove solder 30 and remove the head from the head P.C. board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse

Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board. Make sure that the head P.C. board is not lifted.

> 2. Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

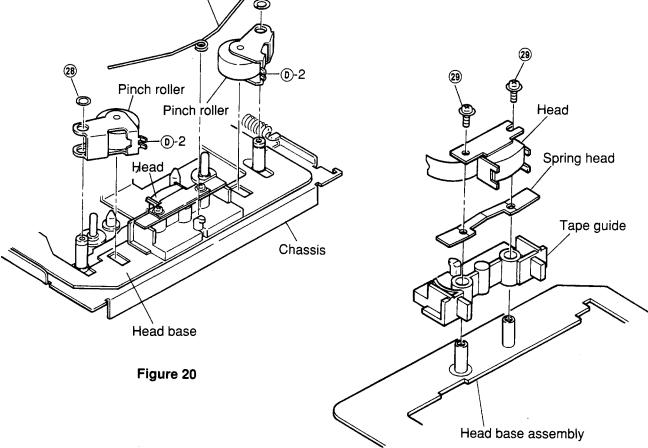
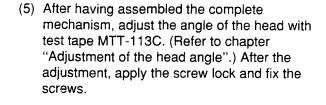
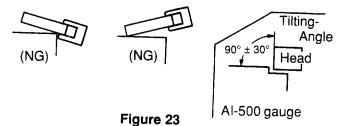


Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- 1) Place the height adjustment gauge (Al-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- 2) When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (4)-1, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.





Playback head Al-500 gauge Tape head Spacer guide Figure 24

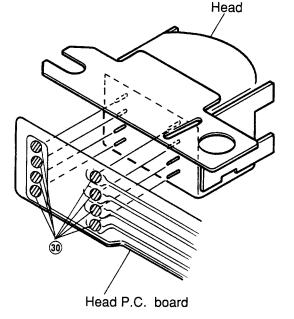
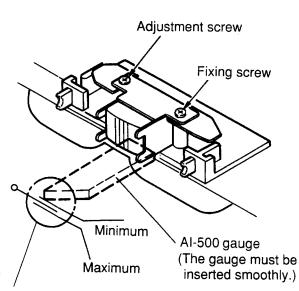


Figure 22

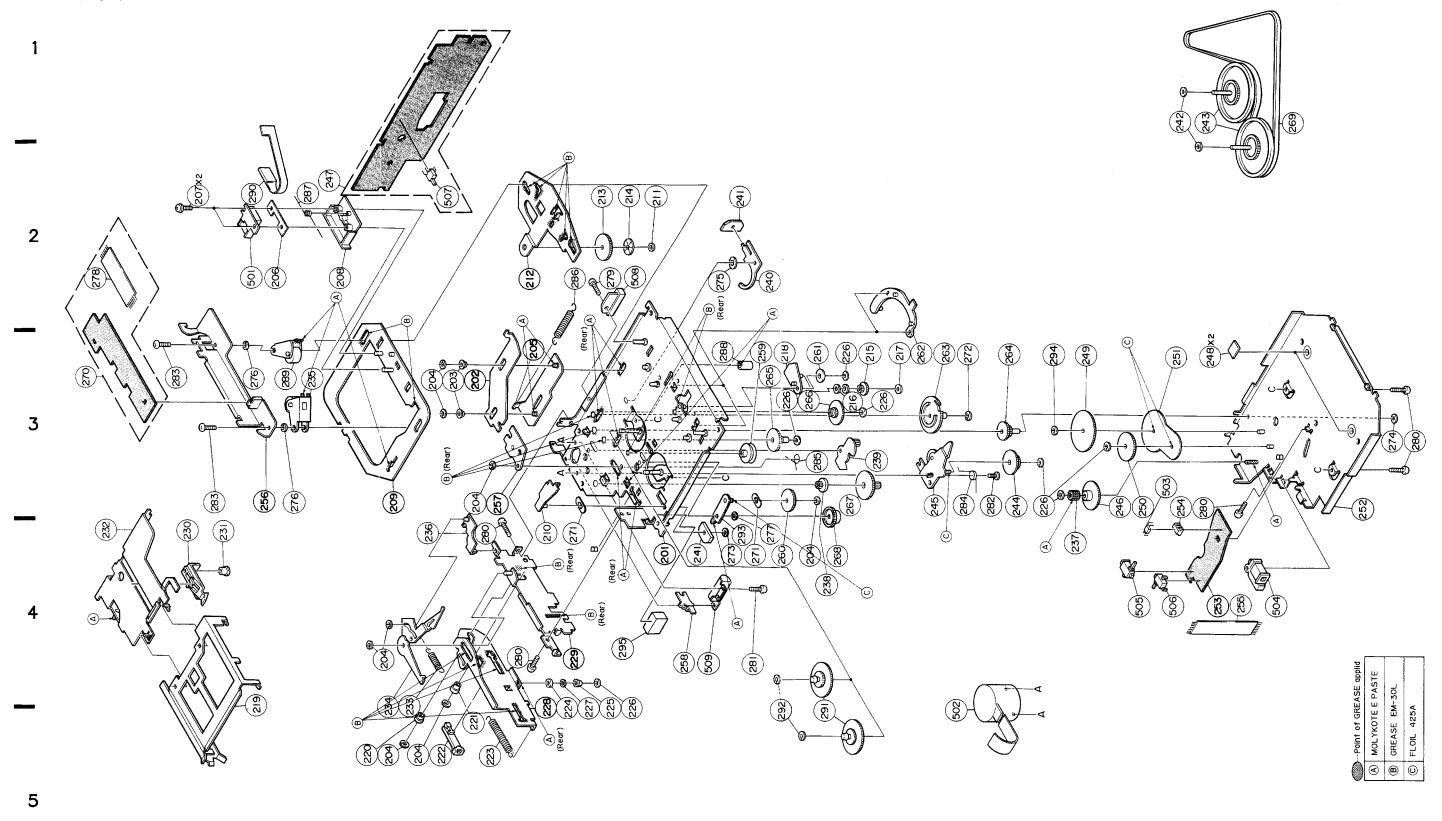


The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

### Exploded View (1/3)

• For GR75E010/01A/01C/020 Models



. \_

(

D

Ε

G

**- 18 -**

G

Н



### Cassette Deck Assembly Parts List (1/3)

ol	IN-	Part No.	Description
).	dex	101110701101	D. I.
03	3-C	43A11072W01	Roller, Sub Head
204	0.0	04B41345P01	Washer, Lock (M1.2)
206	ľ	41A10095W01	Spring, Head
207		03S40019G03	Screw, F-Locks (M2x4)
208	2-B	43B12545W01	Tape. Guide
210	4-C	01A10206W01	Assy. Riv Lever R/F
211	2-D	04B41345P29	Washer, Lock (M2.6)
213		44A10295W01	Gear, Sensor
214	ł	14A10681W01	Reflector
215	3-E	44A10142W01	Gear, Planet
216	3-E	41A10097W02	Spring, Clutch
217	3-E	04B41345P35	Washer, Lock (M1.7)
218		01A21853W01	Assy., Riv Lever
		27	Reverse
219	4-B	07B10074W01	Holder. Cassette
220	1	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224		43A10121W01	Roller, Eject A
2 <b>2</b> 5	4-D	43A10360W01	Roller, Eject B
226		04B41345P11	Washer, Lock(Mi.2)
227	4-D	43A12377V01	Roller, Eject C
230		45B10376W01	Slider
231		47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy. Riv Plate Base
202	* n	OINIO212#01	hssyRiv Flate base
233	4-C	41B10386W01	Spring. Eject Arm
234	4-B	01A10148W01	Assy Riv Eject
	·		Arm A
235	3-B	01B10381W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever Pack In SW
237	4-F	44A12975W01	Pinion, Eject
238	4-E	44A13617W01	Gear. Motor Idler(B)
239	3-E	01A10201W02	Assy Riv Lever
			Pause
240	2-D	45A10092W01	Lever, Play
241		76T10374W01	Chip
242	1-C	04S40075G05	Washer Polyslider
			(M2.1)
243	1-G	01A10368W01	Assy Flywheel
244	3-F	44A10141W01	Gear, Eject Idler
245	3-E	01A10205W01	Assy., Riv Lever
246	3-F	44A10145W01	Clutch A Gear, Eject
247	2-B	01V11500W18	Assy. GR Control
	ı	1	

S	L	IST	( T	•	vithout parts list are not supplied.
- 1	Sy	abo1	1 N-		
		No.	dex	Part No.	Description
		248	3-G	43A90918F01	Spacer, Polyslider
				44A11063W01	Gear, Bottom A
		250	3-F	44A11064W01	Gear. Bottom B
		251	3-G	34A11122W02	Washer, CR
		252	3-H	01A10210W02	Assy., Riv. Cover Bottom
					·
		254	1	15B11065W01	Guide, Photo
Į		255	4-G	30T15126W01	Wire, PC Sensor(7P)
		258	4-D	45A10101W01	Lever, Eject Sol
ĺ		259	3-D	49A10131W01	Pulley, Idler
		260	4-E	44A10133W01	Gear. Take Up
		261	3-E	44A10134W01	Gear, Sun
		1	i		Gear, Fix
l					
					Gear, Pause
					Gear, Pause Idler A
		265	3-D	44A10379W01	Gear, Pause Idler B
		266	3-E	44A10138W01	Gear. Reverse Idler
		267	3-E	44A10139W01	Gear, Motor Idler
		268	4-E	44A11062W01	Gear. Reel Idler
		269	1-G	42A10380W01	Belt. GR
- 1	•	270	3-A	01V14700W68	Assy., GR Audio
					P.C. Board
		270	3-A	01V11500W19	Assy., GR Audio
	_	210	3-A	01411200#12	P.C. Board
1	$\blacksquare$	270	3-A	01V11500W19	Assy., GR Audio
	_	-		01,11000,110	P.C. Board
	0	270	3-A	01V11500W19	Assy., GR Audio
					P.C. Board
		271	4-D	41A10097W02	Spring, Clutch
		272	3-F	04B41345P15	Washer, Lock(M1.2)
		273	4-D	04B41345P02	Washer, Lock(M1.7)
l		274	3-H	04B41345P17	Washer, Lock(M1)
		275	2-D	04B41345P30	Washer, Lock(M3.1)
ł		276	3-B	04B41345P32	Washer, Lock(M3.1)
		277	4-E	04B41345P06	Washer, Lock(M2.1)
		278	2−Λ	30T15126W02	Wire, PC Joint 7P
		279	2-D	03S44205G78	Screw. Pan(M2x6)
- 1		280		03S44205G30	Screw, Pan(M2.6x4)
l		281	4-D	03S72235F38	Screw, Pan(M2x3.3)
		282	3-F	03A12132W02	Screw. Eject Clutch
					(M2x2.3)
		283		03S43997P64	Screw, Pan(M1.7x3)
l		284	3-F	41A10384W01	Spring, Eject Clutch
- 1		285	3-E	41A10385W01	Spring. Cas Push
		286	2-C	41B10386W02	Spring. Sub Head
		287	2-B	41A10387W01	Spring, Pinch Roller
		288	3-D	43A12719W01	Roller, Pause

Others ; Common

[ 0	ymbol	1 N-	T	1				
3		į.	Part No.	Description				
	No.	dex						
	289	3-B	01B10381W01	Assy., Pinch Roller				
1	290	2-B	84T10367W01	Head P.C. Board				
•	291	4-E	01T15164W01	Assy., Reel				
	291	4~E	01T15164W01	Assy., Reel				
	291	4-E	01T15164W02	Assy., Reel				
-		1.2	01110104#02	100y., Keel				
	201	4 5	017151041101	1 D. 1				
0	291	4-E	01T15164W01	Assy., Reel				
	292	4-E	04B41345P12	Washer, Lock (M1.7)				
	293	4-D	01A11078W01	Assy Riv Lever				
				Take Up				
	293	4-D	01A11078W01	Assy., Riv Lever				
	-			Take Up				
	293	4-D	01A11078W01	Assy., Riv Lever				
-	230	4-0	OTWITOLOMOT	1				
1				Take Up				
10	293	4-D	01A30161W01	Assy., Riv Lever				
				Take Up				
	294	3-F	04B41345P34	Washer, Lock(M1.2)				
	295	4-D	75S12196W88	Rubber. Pad				
	230	4-0	10012190#00	Nuober. Fau				
1								
		i						
ł			Misce	ellaneous				
	501	2-B	88T15971W01	Head				
	501	2-B	88T10373W01	**				
1 -	1	1		Head				
	501		88T10373W01	llead				
	501	2-B	88T10373W01	Head				
	502	4-E	01V11500W64	Assy., Motor				
	503	3-G	51T15144W01	Sensor, Photo				
	504	4-G	01T10371W01	R/F Sol. Assy.				
1	505		40T15382W01					
	303	4-F	40110302#01	SW., Detector				
				(Pack Down)				
	506	4-G	40T15382W01	SW., Detector(Metal)				
	507	2-C	40T15222W01	SW Detector (Pack in)				
			1					
1	508	2-D	01T15249W01	Assy., Play Solenoid				
	509	4-D	01T10369W02	Assy. Eject Solenoid				
	000	ע־צּ	01110909#07	veet votellotd				
			ļ					
			ļ					
		Ì	Ì					
			,					
			·					

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only ▲; For GR75E01A model only ○; For GR75E01C model only

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only \*: • ; For GR75E020 model only

A ; For GR75E01A model only

O ; For GR75E01C model only

19

### Exploded View (2/3)

● For GR75L010/020 Models 213



### Cassette Deck Assembly Parts List (2/3)

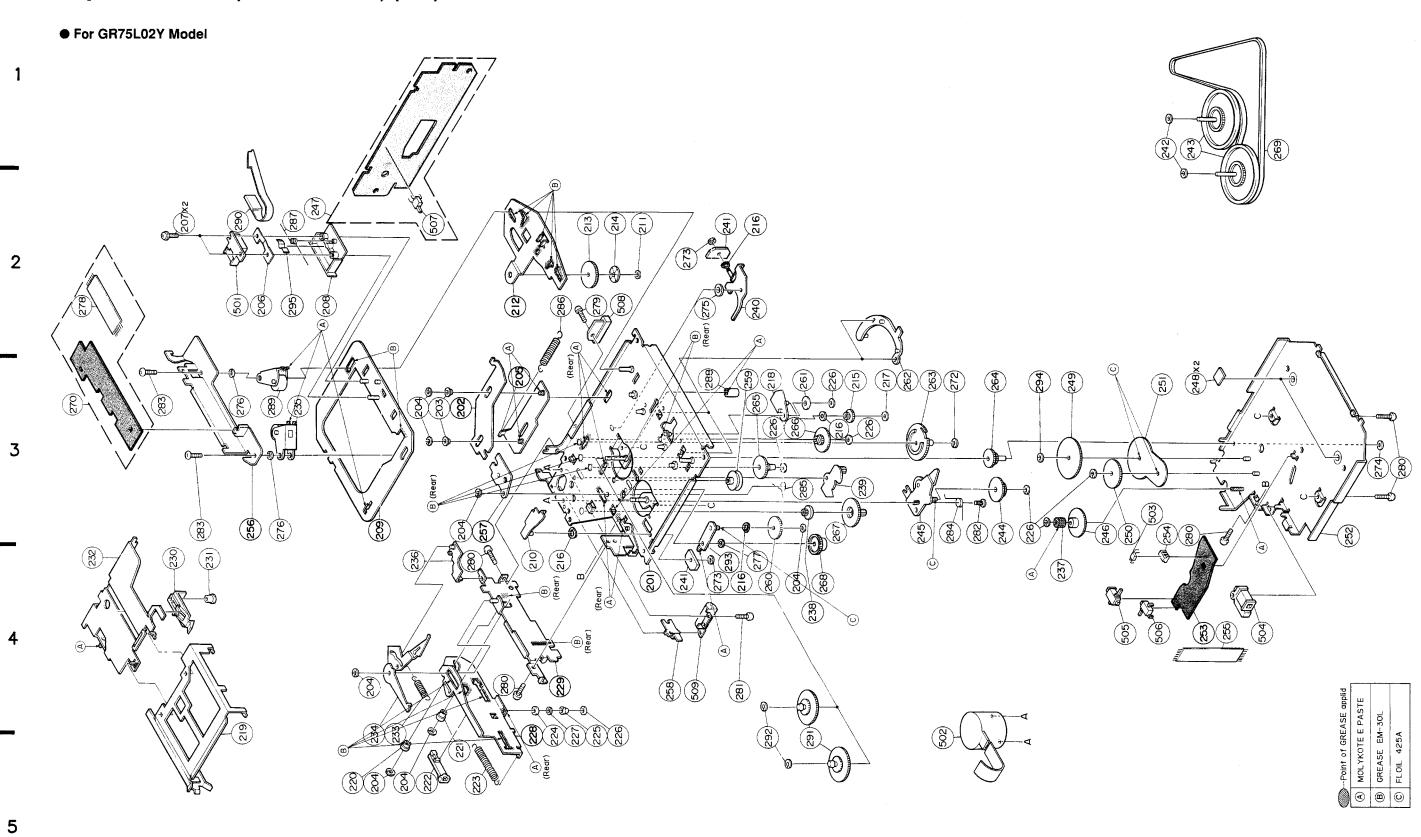
Cas	sei	te Dec	ck Assembly Par
Symbol No.	1 N-	Part No.	Description
No. 203	dex 3-C	42411070401	Polit Och Hood
203	137	43A11072W01 04B41345P01	Roll, Sub Head
	0.0		Washer, Lock(M1.2)
206	2-B	41A21671W01	Spring, Head
207	2-B	03S40019G03	Screw. F-Locks (M2x4)
208	2-B	43B12545W01	Tape. Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol.
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A10142W01	Gear, Planet
216	3-E	41A10097W02	Spring, Clutch
217	3-E	04B41345P31	Washer, Lock(M1.7)
218	3-E	01A21853W01	Assy., Riv Lever
12.0	"	OTHE TOOD WOT	Reverse
219	4-B	07B10074W01	
220	1		Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221		43A22153W01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller, Eject(B)
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller, Eject(C)
230	1	45B10376W01	Slider
231	1	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	AIDINGGEUNI	Chalag Ficas Ac-
1	1 1	41B10386W01	Spring, Eject Arm
234	4-B	01A21754W01	Assy., Riv Eject
235	3-B	01B10381W02	Arm(A) Assy., Pinch Roller
236	4-C	45A10087W01	
			Lever, Pack In SW.
237	4-F	44A20314W01	Pinlon. Eject
238	4-E	44A13617W01	Gear. Motor Idler(B)
239	3-E	01A10201W02	Assy Riv Lever
			Pause
240	2-D	45A10092W01	Lever, Play
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer, Polyslider
			(M2.1)
243	1-G	01A10368W01	Assy., Flywheel
244	3-F	44A10141W02	Gear. Eject idler
244	3-F	01A10205W02	Assy., Riv Lever
240	1 0 -E	01V10709#07	Clutch(A)
246	3-F	44A10145W01	Gear. Eject
247	2-В	01V23700W03	Assy., GR Control
			P.C. Board
1			

supplie

Sy	mbol	IN-	Part No.	Description
	No.	dex	01715104400	Aggy Pool
	291	4-E	01T15164W03	Assy., Reel
	292	4-E	04B41345P12	Washer, Lock(M1.7)
	293	4-D	01A11078W01	Assy Riv Lever
	-			Take Up
	294	3-F	04B41345P34	Washer, Lock(M1.2)
	295	2-B	26A20537W01	Shield, Plate
	}			
			Misc	ellaneous
*	501	2-B	88T10373W01	Head
•	501	2-B	88T15971W01	Head
	502	4-E	01V23900W60	Assy Motor
	503	3-G	51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy
	, í			
	505	4-F	40T15382W01	SW., Detector (Pack Down)
		1	40T15382W01	SW., Detector (Metal)
ļ	507		40T15382W01	SW., Detector (Pack In)
	508			ł .
			01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy., Eject Solenoid
İ				
Ì				
ļ				
			!	
				`
1				
İ				
		-		
			:	
- 1				

Notes : ★ : For GR75L010 model only ◆ : For GR75L020 model only Others : Common

### Exploded View (GR-Y Series) (3/3)



A B C D E F G H

# Cassette Deck Assembly Parts List (GR-Y Series) (3/3)

Symbol	- 1	Part No.	Description
No.	dex		
203	3-C	43A11072W01	Roll. Sub Head
204		04B41345P01	Washer, Lock(M1.2)
206	2-B	41A21671W01	Spring, Head
207	2-B	03S40019G03	Screw. F-Locks (M2x4)
208	2-B	43B12545W01	Tape, Guide
		ļ	
210	4-C	01A10206W01	Assy., Riv Lever R/F
			Sol.
211	2-D	04B41345P38	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear. Sensor
214	- 1	14A10681W01	Reflector
215	t	44A10142W01	Gear, Planet
""	,   0 2	14.110145#01	John Tanot
216	,	41A10097W02	Spring, Clutch
217		04B41345P31	Washer, Lock (M1.7)
218		01A21853W01	Assy Riv Lever
416	, J <sup>3-E</sup>	OTUCIONOMOI	Reverse
	1 4- 0	07010074401	Holder, Cassette
219		07B10074W01	i
220	)   5-B	43A12583W01	Roller, Eject
1 200	.	10100001001	Pallon Diato Page
221	1	43A63281F01	Roller, Plate Base
222		44A82206F01	Rack
223		41B10386W03	Spring, GR(Rack)
224		43A10121W01	Roller, Eject(A)
225	5 4-D	43A10360W01	Roller, Eject(B)
226	3	04B41345P11	Washer, Lock (M1.2)
227	/ 4-D	43A12377W01	Roller, Eject(C)
230	) 4-A	45B10376W01	Slider
231	L 4-B	47A63278F01	Shaft, Slider
233	2 4-A	01/10212/01	Assy., Riv Plate Base
	Ì		
233	3 4-C	41B10386W01	Spring. Eject Arm
234	4-B	01A21754W01	Assy., Riv Eject
1 1	İ		Arm(A)
235	5 3-B	01B10381W02	Assy., Pinch Roller
231	3 4-C	45A10087W01	Lever, Pack in SW.
231	7 4-F	44A20314W01	Pinion, Eject
23	3 4-E	44A13617W01	Gear, Motor Idler(B)
239	9 3-E	01A10201W02	Assy., Riv Lever
			Pause
240	2-D	01A30879W01	Assy., Riv. Play Sol.
24	1	76T10374W01	Chip
24:	2 1-G	04S40075G05	Washer, Polyslider
			(M2.1)
24	3 1-G	01A10368W01	Assy., Flywheel
24	1	44A10141W01	Gear, Eject Idler
24	·	01A10205W02	Assy., Riv Lever
"			Clutch(A)
24	8 3-F	44A10145W01	Gear, Eject
24	1	01V23700W04	Assy., GR Control
"		51,20,00,00	P.C. Board
			<u> </u>

		Not	e: The parts w	ithout parts list are not supplied.
Syı	bol	1 N-	Part No.	Description
	No.	dex		
	248	3-G	43A90918F01	Spacer, Polyslider
	249	3-F	44A11063W01	Gear, Bottom(A)
	250	3-F	44A11064W01	Gear, Bottom(B)
	251	3 <b>-</b> G	34A11122W02	Washer, GR
	252	3-H	01A10210W02	Assy., Riv. Cover Bottom
	254	3-G	15B11065W01	Guide, Photo
	255	4-G	30T15126W01	Wire, PC Sensor(7P)
	258	4-D	45A10101W01	Lever, Eject Sol.
	259	3-D	49A10131W01	Pulley, idler
	260	4-E	44A10133W01	Gear, Take Up
	261	3-E	44A10134W01	Gear. Sun
	262	3-E	44B10135W01	Gear. Fix
	263	3-E	44B21670W01	Gear. Pause
	264	3-F	44A10137W01	Gear. Pause Idler(A)
	265	3-D	44A10379W01	Gear, Pause Idler(B)
	266	3-E	44A10138W01	Gear, Reverse !dler
	267	3-E	44A10139W01	Gear, Motor Idler
	268	4-E	44A11062W01	Gear, Reel Idler
	269	1-G	42A10380W01	Belt. GR
	270	3-A	01V33300W03	Assy., GR Audio
				P.C. Board
	272	3-F	04B41345P15	Washer, Lock(M1.2)
	273		04B41345P02	Washer, Lock(M1.7)
	274	3-H	04B41345P17	Washer, Lock(MI)
	275	2-D	04B41345P30	Washer, Lock (M3.1)
	276	3-B	04B41345P32	Washer, Lock(M3.1)
	277	4-E	04B41345P37	Washer, Lock(M2.1)
	278	2-A	30T15126W02	Wire, PC Joint 7P
	279	2-D	03S44205G78	Screw, Pan(M2x6)
	280		03S44205G30	Screw, Pan(M2.6x4)
	281	4-D	03S72235F38	Screw, Pan(M2x3.3)
	282	3-F	03A12132W02	Screw. Eject Clutch
				(M2x2.3)
	283		03S43997P64	Screw, Pan(M1.7x3)
	284	3-F	41A10384W01	Spring, Eject Clutch
	285	3-E	41A10385W01	Spring, Cas. Push
	286	2-C	41B10386W02	Spring. Sub Head
	287	2-B	41A10387W01	Spring, Pinch Roller
	288	3-D	43A12719W01	Roller, Pause
	289	3-B	01B10381W01	Assy., Pinch Roller
	290	2-B	84T35271W01	Head P.C. Board
1.				
			j	

No.   dex   Part No.   Description
292   4-E   04B41345P12   Vasher. Lock(M1.7)   Assy Riv Lever   Take Up   Vasher. Lock(M1.2)   Shield. Plate
293   4-D   01A30161W01
Take Up   Washer. Lock (M1.2)   Shield. Plate
294   3-F   2-B   26A20537W01   Washer. Lock (M1.2)   Shield. Plate
## Scellaneous    Miscellaneous
Miscellaneous    501
501
501
501
502   4-E   01V23900W60   Assy. Motor   Sensor. Photo   Sensor. Photo   R/F Sol. Assy   504   4-G   01T10371W01   R/F Sol. Assy   505   4-F   40T15382W01   SW Detector (Pack Down)   506   4-G   40T15382W01   SW Detector (Metal)   507   2-C   40T15222W01   SW Detector (Pack In)   508   2-D   01T15249W01   Assy. Play Solenoid
502   4-E   01V23900W60   Assy., Motor   Sensor, Photo   Sensor, Photo   Sensor, Photo   Sensor, Photo   A-G   01T10371W01   R/F Sol. Assy   SW., Detector (Pack Down)   Sw., Detector (Metal)   SW., Detector (Metal)   SW., Detector (Pack In)   Sw., De
503
504 4-G 01T10371W01 R/F Sol. Assy  505 4-F 40T15382W01 SW., Detector (Pack Down) 506 4-G 40T15382W01 SW., Detector (Metal) 507 2-C 40T15222W01 SW., Detector (Pack In) 508 2-D 01T15249W01 Assy., Play Solenoid
505 4-F 40T15382W01 SW Detector (Pack Down) 506 4-G 40T15382W01 SW Detector (Metal) 507 2-C 40T15222W01 SW Detector (Pack In) 508 2-D 01T15249W01 Assy Play Solenoid
506 4-G 40T15382W01 SW Detector (Metal) 507 2-C 40T15222W01 SW Detector (Pack In) 508 2-D 01T15249W01 Assy Play Solenoid
506 4-G 40T15382W01 SW Detector (Metal) 507 2-C 40T15222W01 SW Detector (Pack In) 508 2-D 01T15249W01 Assy Play Solenoid
507 2-C 40T15222W01 SW Detector (Pack In) 508 2-D 01T15249W01 Assy Play Solenoid
508 2-D 01T15249W01 Assy. Play Solenoid
Bi w Outstald